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Level I Environmental Property Assessment

Prepared For:

SENECA FOODS CORPORATION
P.O. Box 71
Prosser, WA 99350

NOVEMBER 1993

EXPIRES 9-95

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LEVEL 1 ENVIRONMENTAL PROPERTY ASSESSMENT

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Sanofi Bio-Industries
Portion of the South 1/2 of Section 30, T.11N., R.19E., W.M.
Yakima County, Washington

INTRODUCTION

This Level 1 Environmental Property Assessment is being performed at the request of Seneca Foods Corporation for two parcels of property, comprising a total of 51 acres, located at 5661 Branch Road near Harrah, Yakima County, Washington. The parcel of property is also located within the boundary of the Yakima Indian Reservation. Figure 1 depicts the location of the referenced parcels.

Site visits were conducted by J-U-B ENGINEERS, Inc. on November 4 and 10, 1993, in order to record site observations, collect photographs, and other data. The 51-acre site was investigated for vegetative features, adjacent land uses, location of surface waters and evidence of waste disposal and/or hazardous substances. Items not included in this investigation were an analysis of the existing process wastewater treatment/storage ponds and their possible environmental impact. This site has three wastewater treatment/storage ponds which will be closed in accordance with Washington Department of Ecology (WDOE) regulations. Photographs obtained during the site visits are presented in Appendix A, along with a photograph location map.

SITE DESCRIPTION AND CURRENT LAND USE

The majority of the property is located north of Branch Road and east of Lateral 'B' Road. A small portion of the property is located to the south of Branch Road and is bordered by the Burlington Northern Railroad. A legal description can be found in Appendix B. The 51-acre site is currently owned by Sanofi Bio-Industries and is used to process fruit into fruit juice concentrates. The site is currently zoned agricultural. The surrounding land use is also agricultural. The site is bordered on the west by Lateral 'B' Road, to the south by the Burlington Northern Railroad, to the east by a vacant field and to the north by an existing orchard. An abandoned gravel pit is located to the northeast of the site and is currently full of water.

The site topography is relatively flat with a maximum elevation variation of approximately four feet across the site. An irrigation canal designated Drain 3, is owned by the Wapato Irrigation District and located along the east side of the property.

The site currently obtains its water supply from an on-site well. The well supplies an average of 1.02 million gallons per day (mgd) and a maximum of 1.2 mgd. Two fire wells are also located on site.

There are two on-site septic systems. One system serves the main processing plant and the other system serves the administrative offices. The Yakima County Health Department was contacted regarding the location and permits for the on-site systems. Their records were very sparse and consisted only of an application and preliminary plans for a system to serve mobile offices. The application was never completed because the system was not installed. From conversations with Mark Meyer, Sanofi Plant manager, one of the on-site systems is located just north of the cold-storage warehouse with a drainfield located north of the buildings near the wastewater ponds. The other system is located to the rear of the administrative office buildings with a corresponding drainfield to the north.

The facilities process water and cooling water discharges are authorized by NPDES Permit # WA-002156-3 to discharge 870,000 gallons per day (gpd) of non-contact cooling water to Drain 3 (an irrigation return flow ditch/tributary of the Yakima River). This permit also authorizes a discharge of 29,000 gpd of process wastewater via land application.

Approximately 13.5 percent of the property is paved or developed, with the remainder used for the process water land application sprayfield, wastewater treatment/storage ponds and vacant land. There are five buildings located on the site including the main processing building, two cold-storage warehouses, the administrative building, and a dry storage building. The majority of the vegetation on site did not appear to be stressed, dying or absent, except for an area located to the north of the loading dock. This site was used in the past for disposal of used pumice and rice hulls. Portions of the asphalt surfaces to the rear of the main processing plant, had a purple stain, presumably caused by juice concentrate spills. Small oil stains on the asphalt were also observed in several areas.

The west and northwest side of the main facility is used primarily for storage of empty juice concentrate drums for storage of fruit juice concentrate, wood crates, and discarded process equipment. The discarded equipment is primarily stainless steel. Chemicals, mainly caustics, boiler chemicals, and cleaners are presently being stored on the west side of the building.

The undeveloped portion of the site consists of a vineyard to the north and west of the main facility and a vacant field to the north. The northern portion of the vineyard is used as the land application reuse sprayfield for the facilities' process wastewater. The vacant field has not been used in several years except for the land farming of the excavated soil from the underground storage tank removal in 1991. Previously the land was used for farming.

The portion of the property on the south side of Branch Road contains a cold-storage facility and two foundations from previously demolished buildings. This area is also used for storage of empty juice concentrate drums.

The site has been occupied by Sanofi Bio-Industries since January 1990.

PROCESS DESCRIPTION

The process used at Sanofi Bio-Industries to produce fruit juice concentrate is as follows: The raw fruit is washed and crushed into a single strength juice which is then depectinized, filtered, and temporarily stored in on-site tanks. The juice is then passed through concentrators to produce the final concentrate, which is then packaged in drums and stored on site until sold and distributed to other facilities.

During normal operations, the facility employs approximately 50 people and operates three shifts per day, five days a week. Due to the impending sale of the property, the facility was not operating at the time of our site visit and only employed approximately 34 people.

Equipment used in the process includes a hammer mill, Reitz press, centrifuge, plate and frame evaporator, and various filters. The process produces solid waste and wastewater. The solid waste consists mainly of fruit pulp, diatomaceous earth (used for filtration), and rice hulls (facilitates slurry transfer). These items are disposed of by Hamley Hale, a local farmer. The

wastewater generated is aerated and stabilized in a lagoon system and then applied to the sprayfields. A maximum amount of 29,000 gpd is allowed to be land applied.

Materials stored and used on site consist of hydraulic fluid, gear oil, motor oil, bunker oil, chlorine, acid cleaners, caustic cleaners, and quaternary ammonia. These are mainly used for the operation and cleaning of process equipment.

Municipal solid waste generated on site is disposed of by Waste Management of Yakima at the Toppenish solid waste facility.

SOILS AND GEOLOGY

Soils are classified as Ashue loam and Naches loam. Both soils are loamy to a depth of approximately three feet. Below three feet, there is very gravelly sand with independent grain particles. Permeability is slow through the upper three feet of loamy material, but very rapid in the underlying gravels.

WATER WELLS

Ms. Carol Mortenson, of the WDOE was contacted to obtain well logs in the general vicinity of the project. A review of Sections 30 and 31 of Township 11 N., Range 19 E., revealed 14 well logs. Of the 14 wells, five are located on the subject property. All five wells were drilled in 1992 for monitoring purposes. Well logs for the domestic and fire wells were not available. Well logs for the subject property are included in Appendix C.

The general groundwater flow direction for both the shallow alluvial aquifer and the regional water supply aquifer beneath the site is toward the south-southeast. Previous studies performed for Sanofi Bio-Industries estimate that the average flow velocity of groundwater in this area is approximately 25.6 feet per day.

SPRAYFIELD

Sanofi Bio-Industries uses land application as part of their process wastewater disposal system. The sprayfield is located to the north and west of the main facility and is bordered on the west by Lateral 'B' Road. The field consists mainly of grape vines which are irrigated by rill irrigation. Only three quarters of the field is irrigated, the southern portion of the field is not irrigated. The site map (Figure 2) depicts the location of the sprayfield and treatment/storage ponds.

Five monitoring wells were installed in early 1992 as a result of local complaints of poor water quality. Quarterly testing has been conducted since that time and submitted to WDOE. The first set of tests taken indicated high levels of total iron, total manganese, total coliform, and nitrate. Subsequent testing and analyses have not indicated high levels of these constituents. According to Mr. Meyer, no significant changes in the plant process occurred during this time period to explain the discrepancy. A micro-biologist consulted by Sanofi Bio-Industries in this matter, stated that the tests should not have been taken so soon after the wells were drilled and that the effects seen may have been construction related.

Mr. Kim Sherwood of WDOE was contacted regarding the discrepancies between the initial testing and subsequent analyses. Mr. Sherwood stated that in the summer and fall of 1991 all three ponds were full and the sprayfield was being irrigated heavily. At about the same time, local residents were complaining about discolored water from private wells and claiming the discoloration was a result of Sanofi's operation. In November 1991, an inspection of the facility was conducted by representatives of the Yakima Indian Nation, Indian Health, the Environmental Protection Agency (EPA), and the WDOE. The soluble ferrous iron test was applied to locations where effluent had been applied to the soil and indicated anaerobic soil conditions. Subsequently, Order Docket No. DE92WQ-C102 was served to Sanofi Bio-Industries on January 24, 1992. The order required Sanofi to submit a SEPA checklist for new facilities to bring Sanofi into compliance, an engineering report for new wastewater treatment facilities, and a monitoring plan for the existing wastewater disposal operation. The monitoring wells were not drilled until the end of February 1992. In mid-March, the irrigation season began. The amount of irrigation water flowing beneath the site has been estimated at 2.4 mgd. Mr. Sherwood believes that the quantity of irrigation water flowing beneath the site was sufficient to flush the

area of any contamination. According to Mr. Sherwood, Sanofi's wastewater ponds have not been full since, nor has irrigation been as heavily applied as in the past, which is resulting in the absence of contamination in the quarterly well analyses. Mr. Sherwood has been out to the site since the November 1991 visit, and tested for ferrous iron in several areas that were previously found to be anaerobic and found that they have returned to aerobic conditions. Therefore, Mr. Sherwood feels that if the ponds are closed out, the soil will restore itself to aerobic conditions and the past problems should be gone.

HISTORICAL RESEARCH

A fifty-year Chain of Title Certificate was prepared by Schreiner Title Company of Yakima, Washington. The original land use was agricultural. From 1945 to the mid-1970's, Robert Ermey operated a vineyard and a juice concentrate facility. In 1960 a portion of the land was given as right of way to Yakima County, Washington. Gama Foods, Inc. operated the facility from the mid-1970's to 1987. The facility was then operated by ITC Corporation in 1987 and then Compton and Knowles in 1988. Continental Flavors and Fragrances purchased the facility in October 1988 and operated it until 1990, when it was purchased by Sanofi Bio-Industries. The Chain of Title does not indicate any activity, or past owner which would indicate suspicion of hazardous waste generating activity, dumping, or other environmental concern. A copy of the Chain of Title can be found in Appendix D.

Aerial photos for the site were reviewed at Sanofi Bio-Industries, Yakima County, Planning Department, and the Yakima Indian Reservation. Photos were reviewed from 1968, 1973, 1977, 1978, 1979, 1988, 1989, and 1991. A 1991 photo revealed what appeared to be a spill of some whitish material on the western side of the main processing building and continuing into the vineyard. Conversations with Mr. Meyer indicated that to his knowledge, no spill of any environmental concern had occurred at that time. This area was reviewed during the site visit and piles of whitish material were visible under the vegetation. The material appeared to have been diatomaceous earth, which is stored in that area of the site. However, it is doubtful that the material is hazardous, since vegetation is growing well in the area.

Other photos indicated surface disturbances located slightly north and east of the cold-storage building. These are consistent with reports indicating that this area had been used

to dispose of used diatomaceous earth, peach pits and other process waste. Vegetation in this area is still very sparse.

The 1968 photo showed the administrative office building, a barn located to the northwest of the office building, and the three buildings located to the south of Branch Road. The rest of the property was planted as a vineyard. According to Mr. Meyer, the main processing building and storage facility were built sometime in the early 1970's. The most recent building is the cold-storage facility and loading dock which were built in 1989. The buildings located to the south of Branch Road, except the cold-storage facility, were demolished sometime in the 1980's. The old barn was demolished in 1989.

UNDERGROUND STORAGE TANKS

Presently there are no underground storage tanks believed to be located on the subject property. An environmental assessment done in November 1988 by Thorne Environmental of Lynwood, Washington, identified three underground fuel storage tanks. These consisted of a 15,500 gallon fuel oil tank, an 800-gallon gasoline tank, and a 250-gallon gasoline tank. Exploratory excavation and soil sampling was performed and identified some free product around the 15,500-gallon tank. Sampling around the other two tanks did not indicate the presence of any petroleum products. The extent of the contamination was not identified, however, all three tanks were removed in December 1988. No closure documentation was prepared for the removal according to a November 1989 audit report. The Yakima County fire marshall was contacted regarding any records of the tank removal, but no records were found. At the time of the removal, there were no state requirements for underground storage tank removal.

An audit report was performed in November 1989 by O'Brien and Gere Engineers, Inc. This report identified the possible presence of two other underground storage tanks. During their investigation, fill and vent pipes were observed at these locations.

In August 1991, four underground storage tanks were removed from the site at the locations identified in the O'Brien and Gere Report. These included a 2,000-gallon diesel tank, a 10,000-gallon P.S. 300-oil tank, a 300-gallon heating oil tank, and a 1,000-gallon heating oil

(diesel) tank. The tank removal was done by Major Petroleum Service Company and the site assessment reports were prepared by White Shield, Inc.

One report is dated June 1991 and covers the removal of the 2,000-gallon and 10,000-gallon tanks. These tanks were located on the property south of Branch Road and purported to be used for refueling of railroad locomotives. Contamination was found exceeding action levels in the soil and the groundwater, adjacent to the 10,000-gallon tank. Remedial action was taken until additional analyses indicated that the excavation was free from contamination. The excavated material was land farmed on Sanofi Bio-Industries property in the vacant field behind the main processing building (LIQUID DEPT.). The approximate location is described as being 600 feet north of Branch Road and 1,000 feet east of Lateral 'B' Road.

The second report obtained was dated August 1991 and documents the removal of one 1,000-gallon heating oil (diesel) tank. This tank appears to have been located to the south of the main processing building. No sign of contamination was present in the excavation and soil samples confirmed that no contamination was present. No mention of the fourth tank was found in either report.

Closure documentation was sent to the EPA. According to the closure notice, the tanks were removed and given to Hamley Hale, a local farmer, for disposal. Mr. Hale disposed of the tanks as scrap metal. The tanks were not replaced. Copies of the closure documentation can be found in Appendix E.

ABOVE-GROUND STORAGE TANKS

Currently there is one 25,000-gallon above-ground fuel oil tank and two propane tanks. The fuel oil tank is located to the southwest corner of the main processing building and is surrounded by a six foot high concrete block containment wall. Fuel from this tank is used to operate the boilers in the main processing building. Stains on the wall and tank sides indicate that there has been a leak or spill of some kind in the past. These were also noted in the November 1989 audit report and could have happened several years ago.

ASBESTOS

According to the December 1990 audit report update prepared by O'Brien and Gere Engineers, Inc., an asbestos survey of the facility was conducted in December 1989. Floor tiles and two gasket materials tested positive for asbestos. Other materials were also identified as possibly containing asbestos but were not sampled due to the destructive nature of the testing. Items such as floor and ceiling tile mastic and wallboard joint compound should be tested prior to any building demolition. A copy of the asbestos survey report was not available for our review.

STATE AND FEDERAL ENVIRONMENTAL LISTINGS

State and federal environmental lists were checked to determine if there were any listed sites that may be in close proximity to the subject property. The Resource Conservation and Recovery Act (RCRA) list of hazardous waste generators was checked. Those within the vicinity are typically farms. Sanofi Bio-Industries is listed as a conditionally exempt non-regulated generator.

The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) list was checked for listings in Yakima County. No listings were found within several miles of the subject property.

The WDOE Confirmed and Suspected Contaminated Sites Report (C&SCS) was checked for information regarding investigation and monitoring of sites in Yakima County. Of the sites listed, one was in the vicinity. The site is known as the Section 18 Dump located off of Evans Road and is approximately two miles north of the subject property. The site is listed as having been ranked and is awaiting remediation. On a scale of 1-5, with one designating the greatest assessed risk to human health and the environment, this site has been ranked a three. There is suspected groundwater, soil, and surface water contamination. The suspected contaminants are pesticides and conventional organic contaminants. Although the groundwater gradient is generally to the south-southeast, it is unlikely that contaminants would have reached the subject site, due to the two-mile separation.

WETLANDS

On-site investigations, in addition to USGS quadrangle maps, and National Wetlands Inventory Maps indicate no wetlands present on the subject property. A man-made irrigation ditch, known as Drain 3, is located along the eastern side of the site. The ditch is a part of the Wapato Irrigation District and is not considered a natural wetland.

POLYCHLORINATED BIPHENYL'S (PCB's)

According to Benton Rural Electric (BRE), nine electrical transformers are located within the property boundary. The transformers are owned and maintained by the BRE. Three transformers were installed in 1968, three in 1969, one in 1986, one in 1988, and one in 1990. Mr. Rich Ligurski (BRE) was contacted to determine the PCB content of the transformers. All the transformers were tested for PCB's during the late 1980's. The maximum level of PCB's found was 8 ppm, which is less than the 50 ppm limit to be considered non-PCB containing (40 CFR 761). Information on the transformers can be found in Appendix F.

QUALIFICATIONS AND CONFIDENTIALITY

The author of this report is a Registered Professional Engineer in the State of Washington. Mr. Troy Green, P.E. received his Bachelors Degree in Civil Engineering in 1986 from the South Dakota School of Mines and Technology. The author's experience includes evaluation of public drinking water systems, wastewater treatment facilities; underground fuel storage tank removal and remediation; site development and planning; and other civil and environmental evaluations.

The information obtained during the preparation of this report, as well as the report itself, will remain confidential and will not be released without written authorization of the Owner.

LIMITATIONS

This Environmental Assessment was prepared from review of records and interviews with the Washington State Department of Ecology, Yakima County Planning Department, Yakima County Health Department, Sanofi Bio-Industries, Bureau of Indian Affairs, Ms. Janine Jennings, and Mr. Hamley Hale. As such, the findings and recommendations are limited to the available knowledge from the above sources at the time of the assessment. Unforeseen

subsurface conditions or anomalies may be present that are impossible to identify or ascertain given the level of this investigation.

It cannot be guaranteed that the extent of contamination by hazardous or otherwise harmful substances, as described in this report is completely defined without further analysis or if no such contamination was found, its absolute absence.

CONCLUSIONS AND RECOMMENDATIONS

Based on our records and site visits, there does not appear to be any activity on the property which would indicate suspicion that hazardous materials or hazardous waste would have been buried on the site. There does not appear to be any activity on adjacent property that would adversely affect the subject property for its intended use.

One area of potential environmental concern is the past presence of several underground storage tanks (UST) on the property. It appears that all underground fuel storage tanks have been removed from the property. If by some chance any tanks remain on the property, there is no physical evidence of them nor are they being used.

In regard to the previously removed UST, four were removed and properly documented. Any contamination found resulting from these four tanks was removed and disposed of in a known area on the site. The three tanks that were removed in 1988 were not documented, since there were no regulations requiring documentation at that time. Contamination [resulted] from these tanks, but it is unknown if the contamination was completely removed at the time of the tank closure. The exact location of the tanks is unknown and it is likely that the area has since been paved. It is probable that any contamination from these tanks has been diluted by the flow of shallow groundwater underneath the site.

REFERENCES

Aerial Photos. 1991. Yakima County Planning Department.

Aerial Photos. 1968, 1977, and 1989. Sanofi Bio-Industries.

Aerial Photos. 1973, 1978, 1979, and 1988. Bureau of Indian Affairs.

Mr. Mark Meyer, Plant Manager, Sanofi Bio-Industries.

Mr. Hamley Hale, Farmer.

Ms. Janine Jennings, Environmental Protection Program, Yakima Indian Nation.

Mr. John Jones, Washington Department of Ecology, Leaking Underground Storage Tank Program, Public Disclosure Section.

Mr. Kim Sherwood, Washington Department of Ecology.

Yakima County Health Department.

Ms. Carol Mortenson, Washington Department of Ecology, Water Resources.

Audit Report, dated November 27, 1989, prepared by O'Brien and Gere Engineers, Inc.

Audit Report Update, dated December 1990, prepared by O'Brien and Gere Engineers, Inc.

Monitoring Well Data.

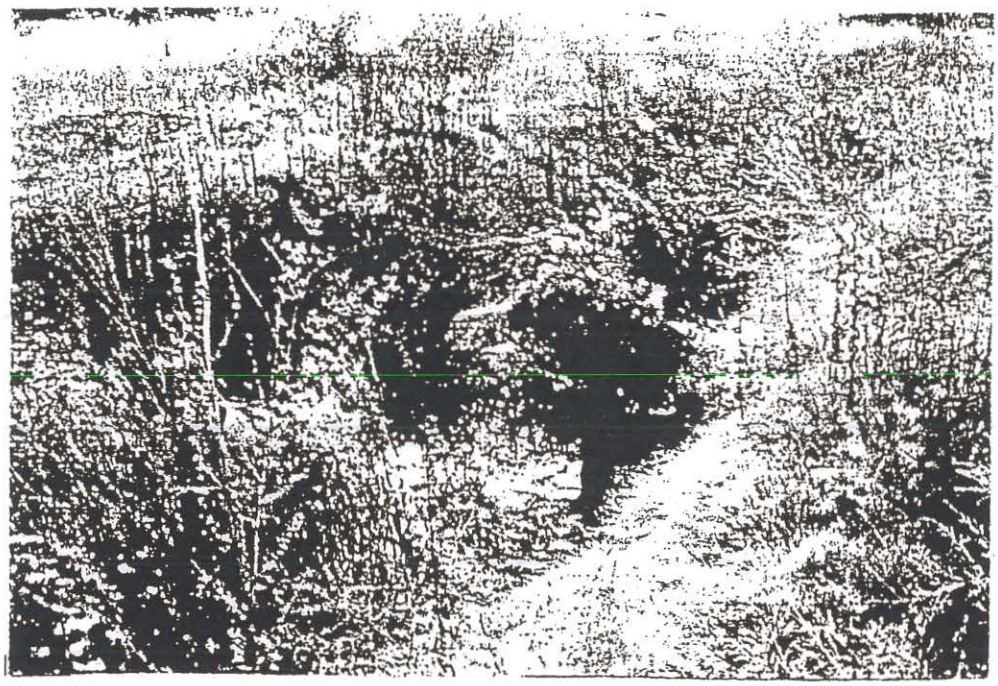
Site Assessment Report for Underground Storage Tank Closure at Sanofi Bio-Industries, Wapato, WA, dated July 1991, prepared by White Shield, Inc.

Site Assessment Report for Underground Storage Tank Closure at Sanofi Bio-Industries, Wapato, WA, dated August 1991, prepared by White Shield, Inc.

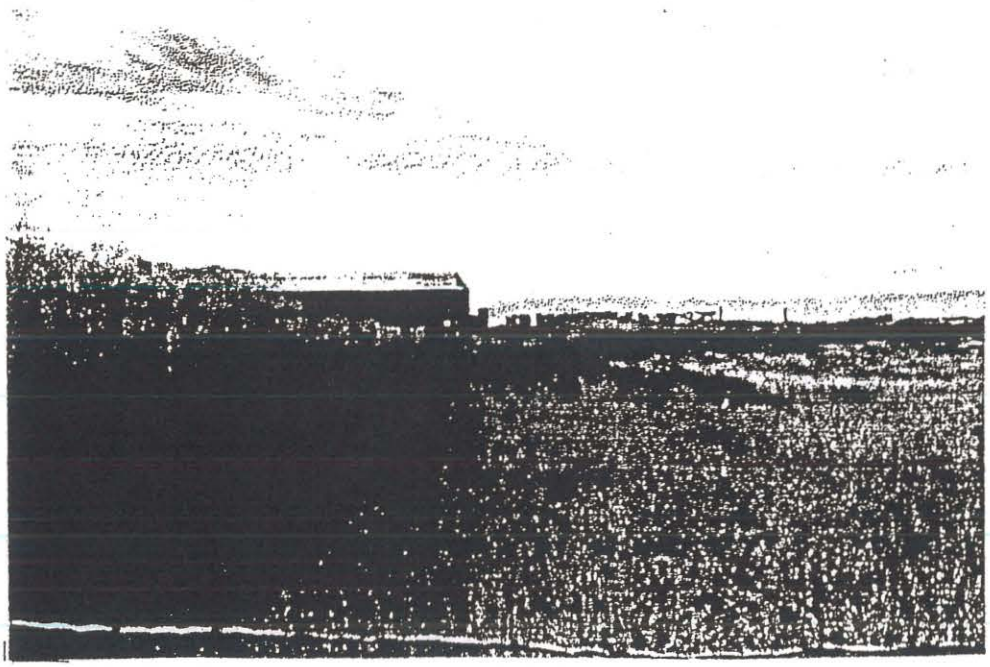
J-U-B ENGINEERS, INC.

BOISE - NAMPA - TWIN FALLS
COEUR d'ALENE - KENNEWICK

DATE:November 4, 1993	JOB NO: 16229-08
PROJECT:Seneca Foods - ESA	
LOCATION:Sanofi Bio-Industries, Wapato, WA	



DESCRIPTION: Photo 1 - Cooling water discharge to irrigation ditch along east side of the site.



DESCRIPTION: Photo 2 - Looking west from east fence line along rear of cold storage building.

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DESCRIPTION: Photo 3 - Typical groundwater monitoring well for land application sprayfield.

DESCRIPTION: Photo 4 - Bare area sparse vegetation. Previous disposal area for used pumice and diatomaceous earth located north of main office.

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COEUR d'ALENE - KENNEWICK

DATE:November 4, 1993	JOB NO: 16229-08
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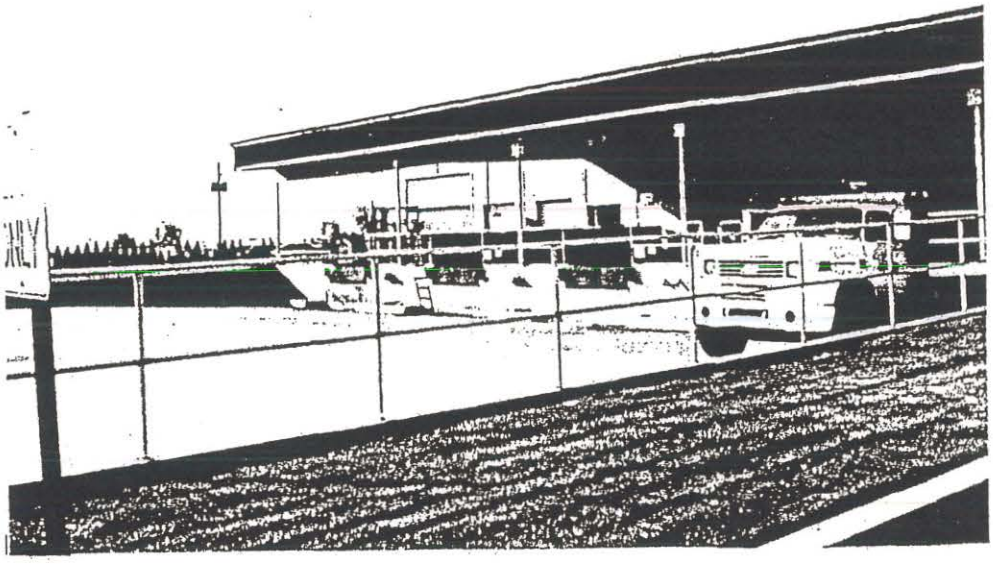
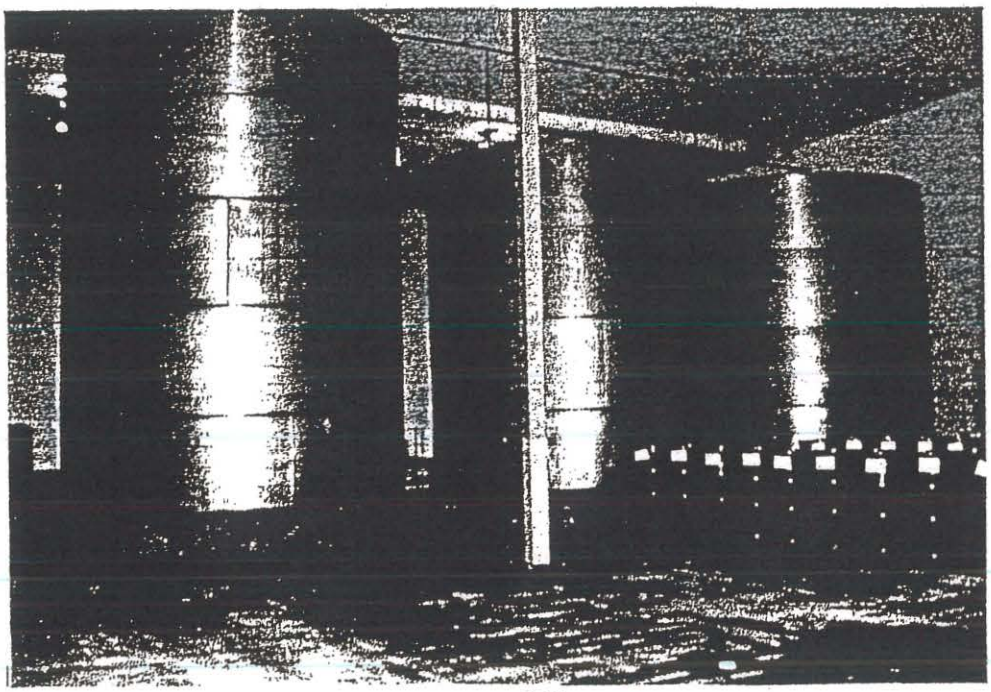
LOCATION:Sanofi Bio-Industries, Wapato, WA	



DESCRIPTION: Photo 5 - Loading dock located on the east side of the cold storage building.



DESCRIPTION: Photo 6 - Interior of cold storage warehouse. Tanks and drums contain juice concentrate.

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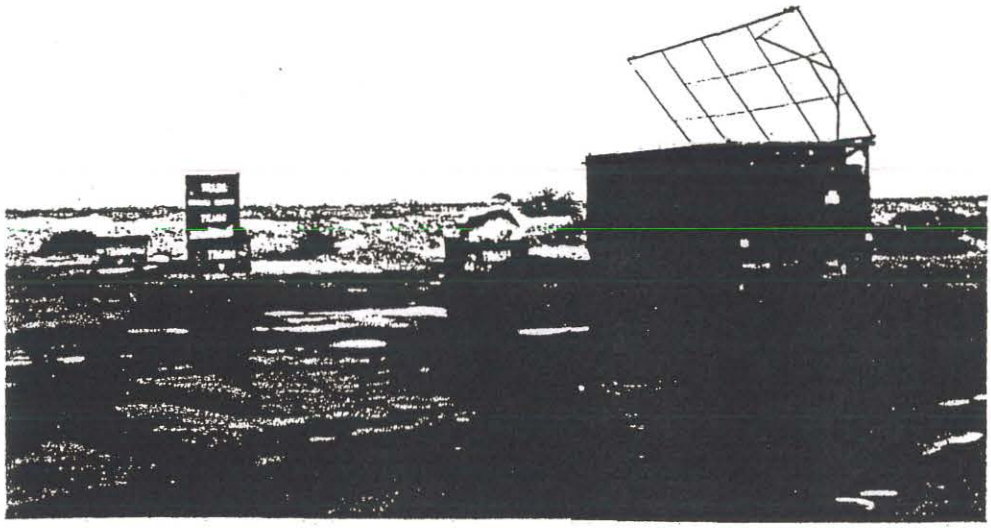
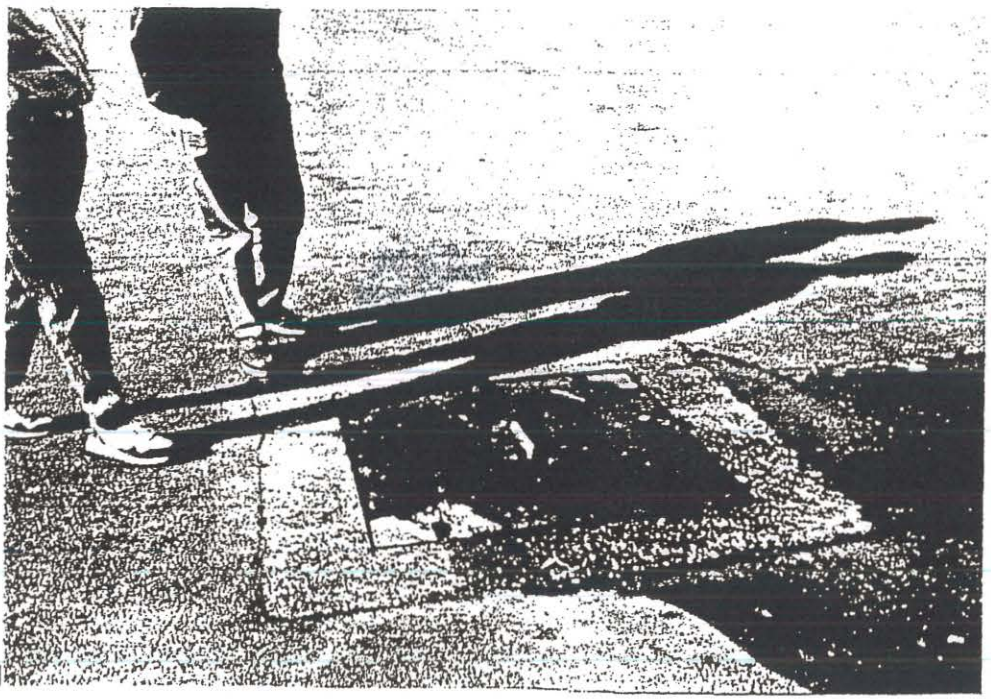


DESCRIPTION: Photo 7 - Solid waste collection area. Purple stains on pavement are from juice concentrate.



DESCRIPTION: Photo 8 - Parking lot drain empties to wastewater ponds.

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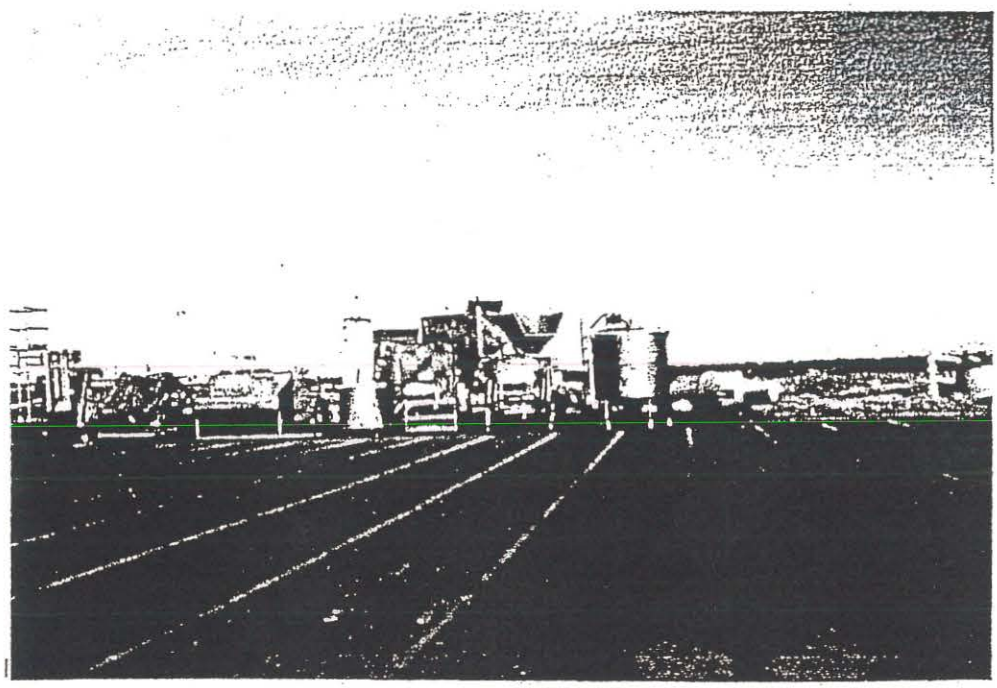
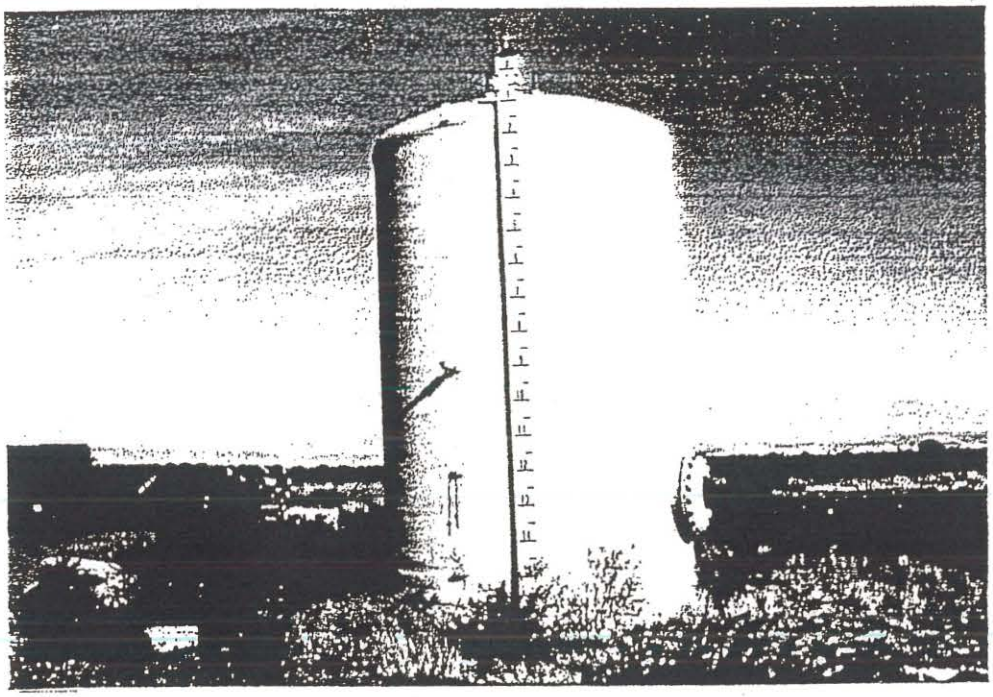
DATE:November 10. 1993	JOB NO: 16229-08
PROJECT:Seneca Foods - ESA	
LOCATION:Sanofi Bio-Industries, Wapato, WA	



DESCRIPTION: Photo 9 - Discarded process equipment storage. Located north of the main processing building.



DESCRIPTION: Photo 10 - Discarded chemical tank. Empty juice concentrate drums in the background.

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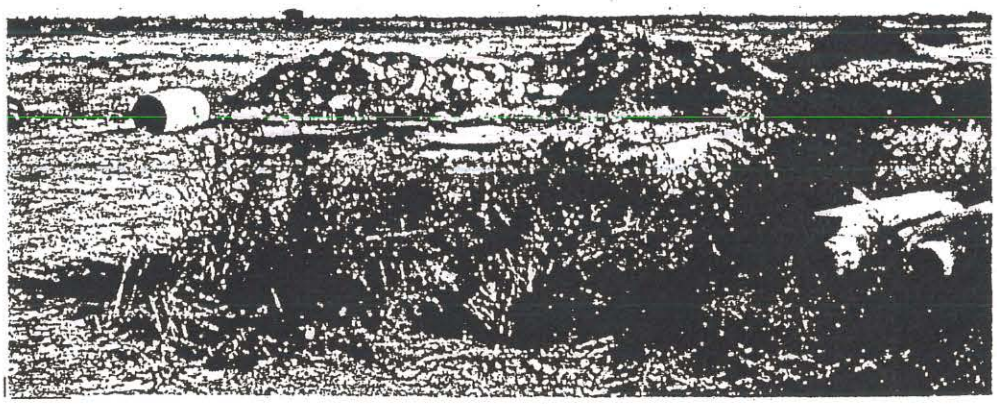
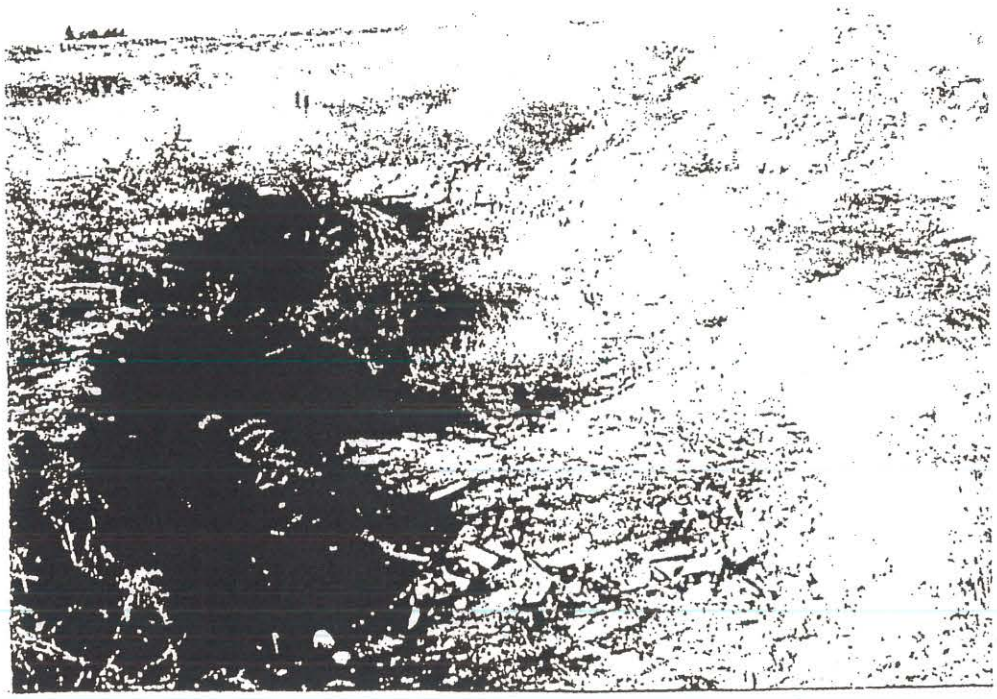


DESCRIPTION: Photo 11 - Piles of asphalt and concrete rubble located north of the main processing building.



DESCRIPTION: Photo 12 - Burn pit used for burning old wooden pallets and other debris.

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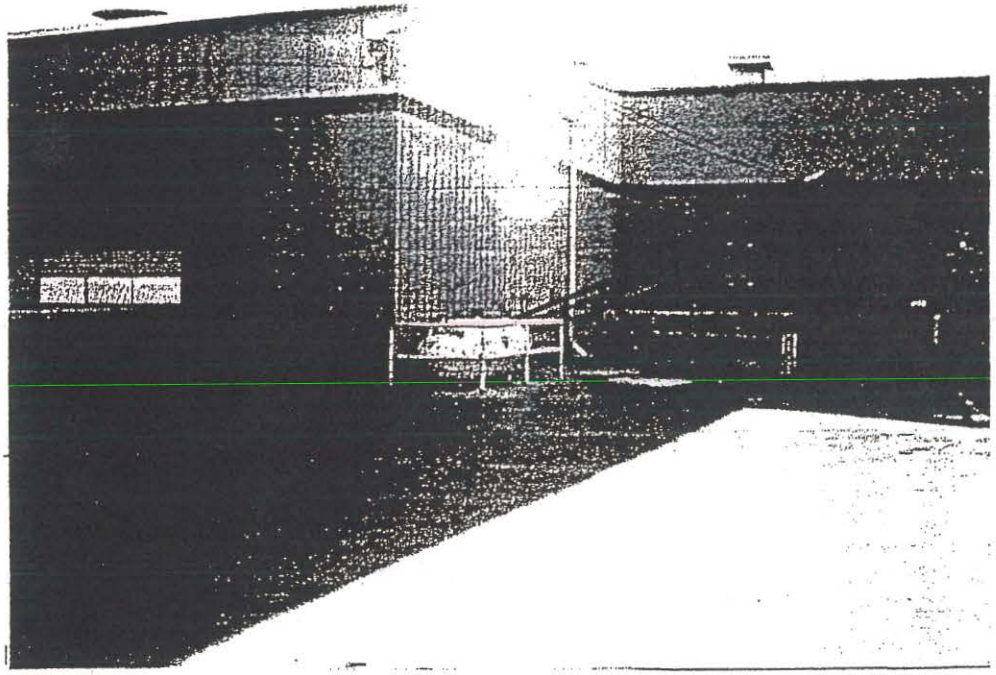
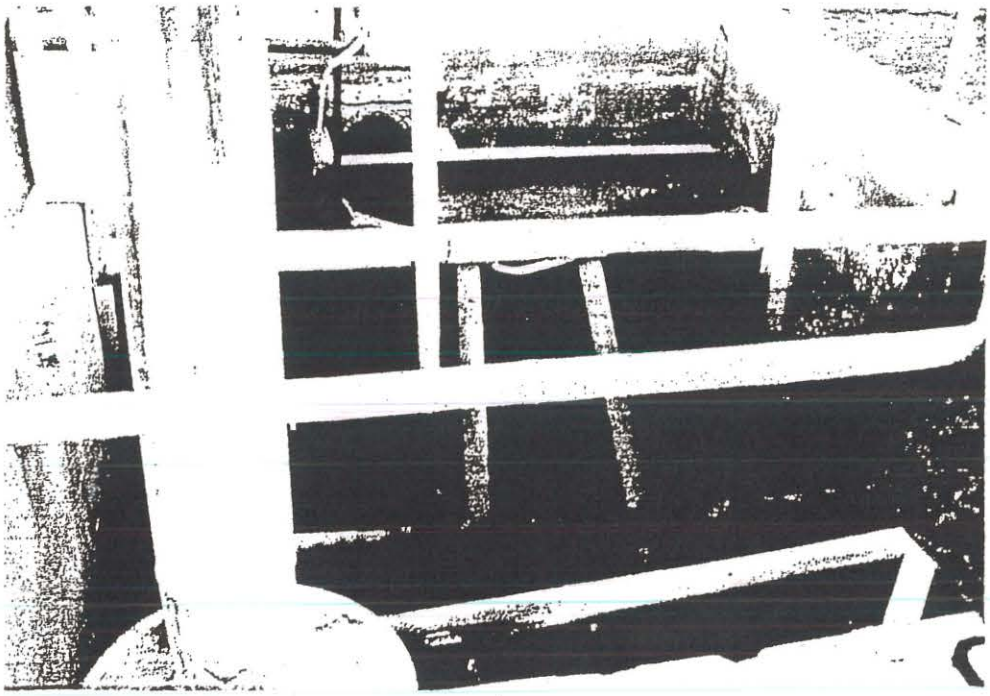


DESCRIPTION: Photo 13 - Northwest corner of main processing building. Small propane tank. To the left is fruit dumping area.



DESCRIPTION: Photo 14 - Yellow guardrail area seen in above photo. Collection point for process wastewater. Empties to wastewater ponds.

J-U-B ENGINEERS, INC.

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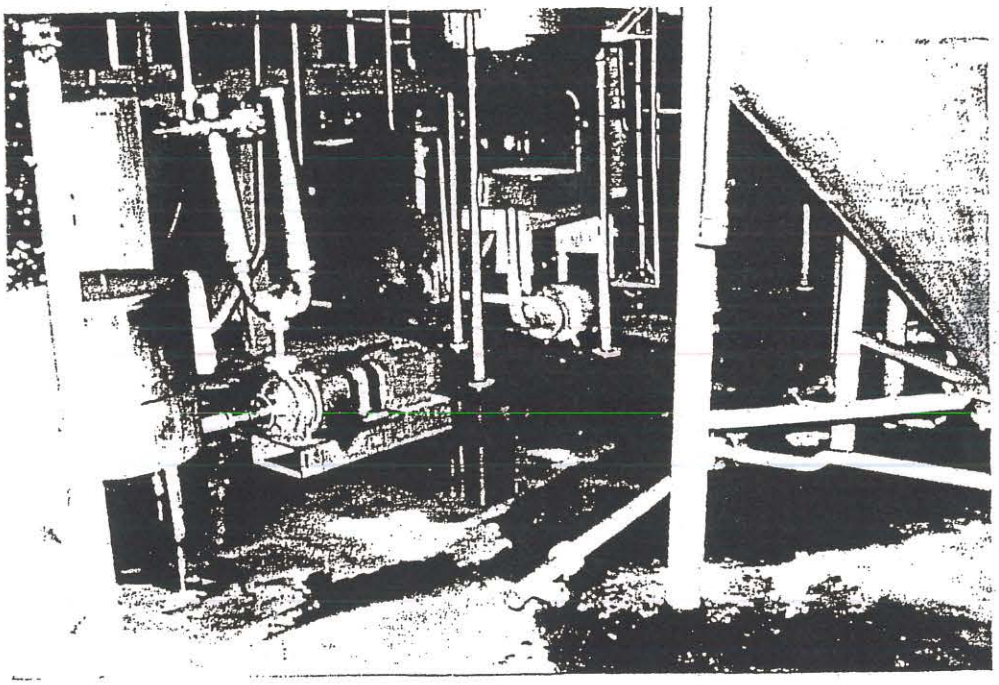
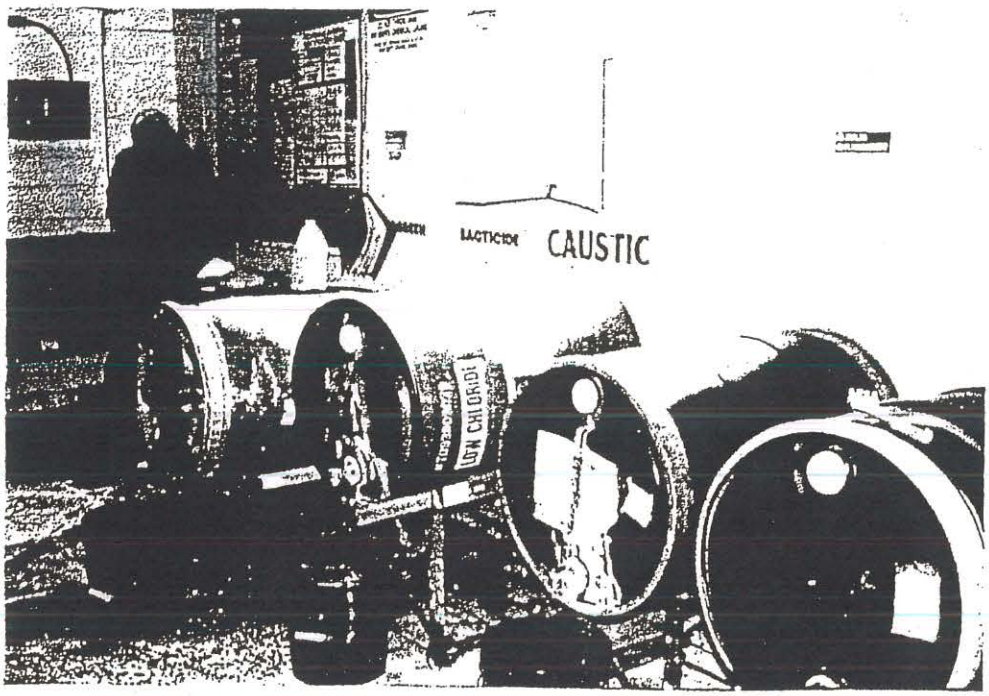


DESCRIPTION: Photo 15 - Process equipment in main processing building.

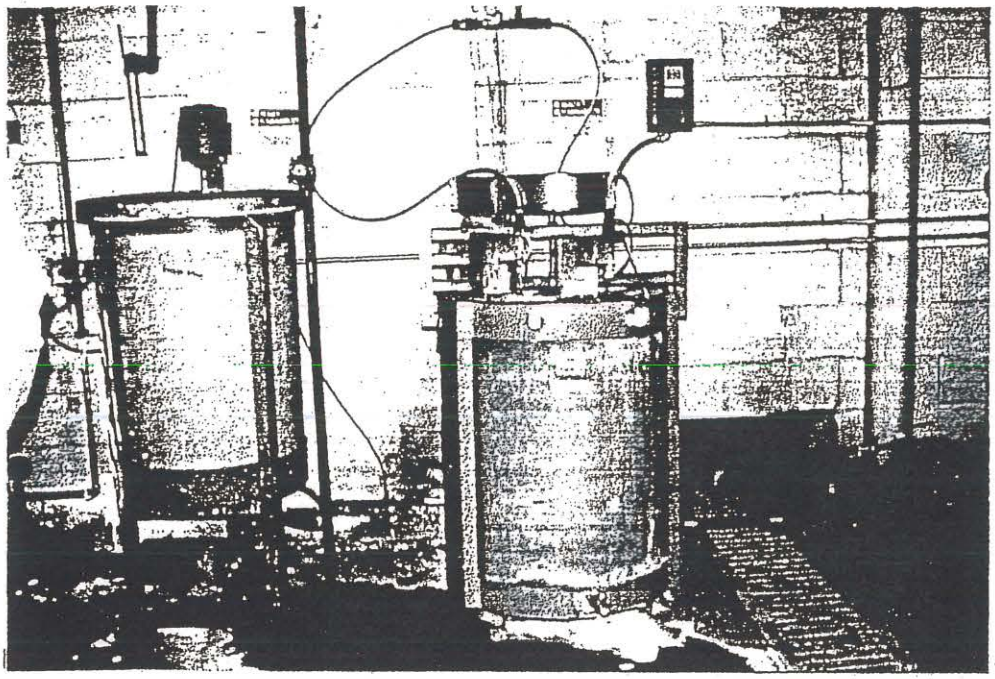


DESCRIPTION: Photo 16 - Chemical room containing caustic, ammonia, and other cleaning agents.

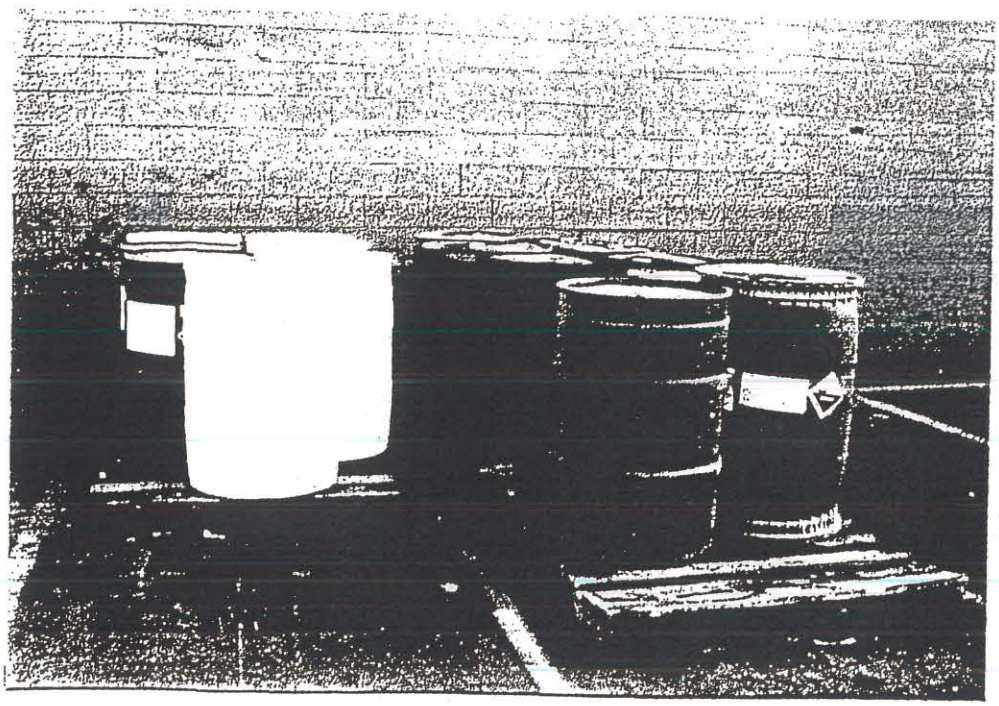
J-U-B ENGINEERS, INC.

BOISE - NAMPA - TWIN FALLS
COEUR d'ALENE - KENNEWICK

DATE:November 4, 1993	JOB NO: 16229-08
PROJECT:Seneca Foods - ESA	
LOCATION:Sanofi Bio-Industries, Wapato, WA	



DESCRIPTION: Photo 17 - Boiler room chemicals. Includes anti-scalents, etc. Floor drain discharges to process water treatment system.



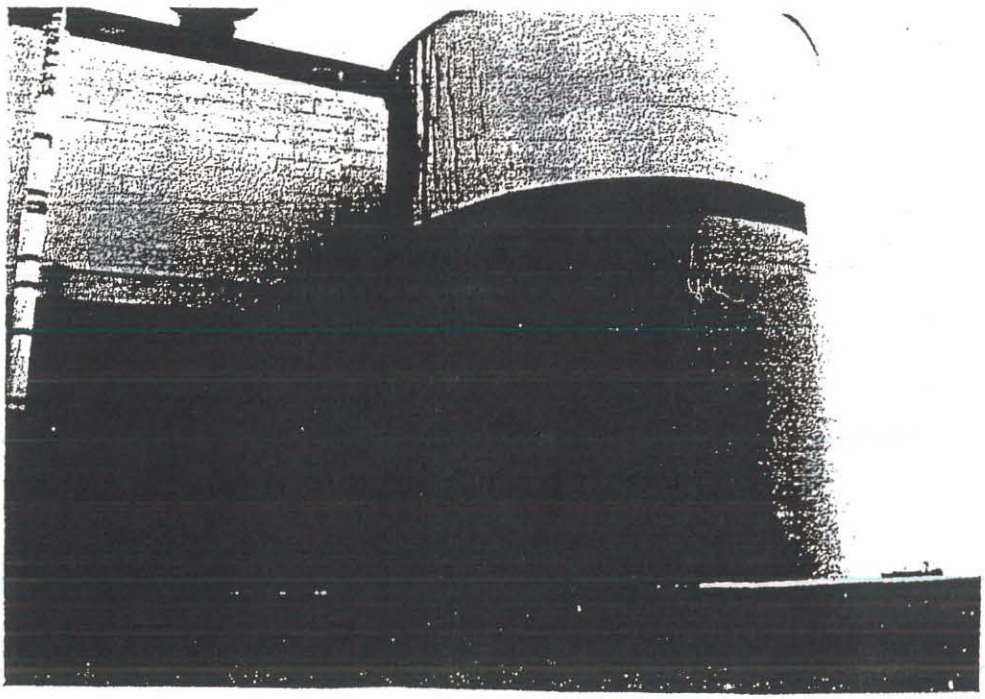
DESCRIPTION: Photo 18 - Excess chemical storage located on west side of main processing building.

J-U-B ENGINEERS, INC.

BOISE - NAMPA - TWIN FALLS
COEUR d'ALENE - KENNEWICK

DATE:November 4, 1993	JOB NO: 16229-08
PROJECT:Seneca Foods - ESA	
LOCATION:Sanofi Bio-Industries, Wapato, WA	

DESCRIPTION: Photo 19 - Storage area for pumice, rice hulls, wooden pallets and crates. Located along western side of property.



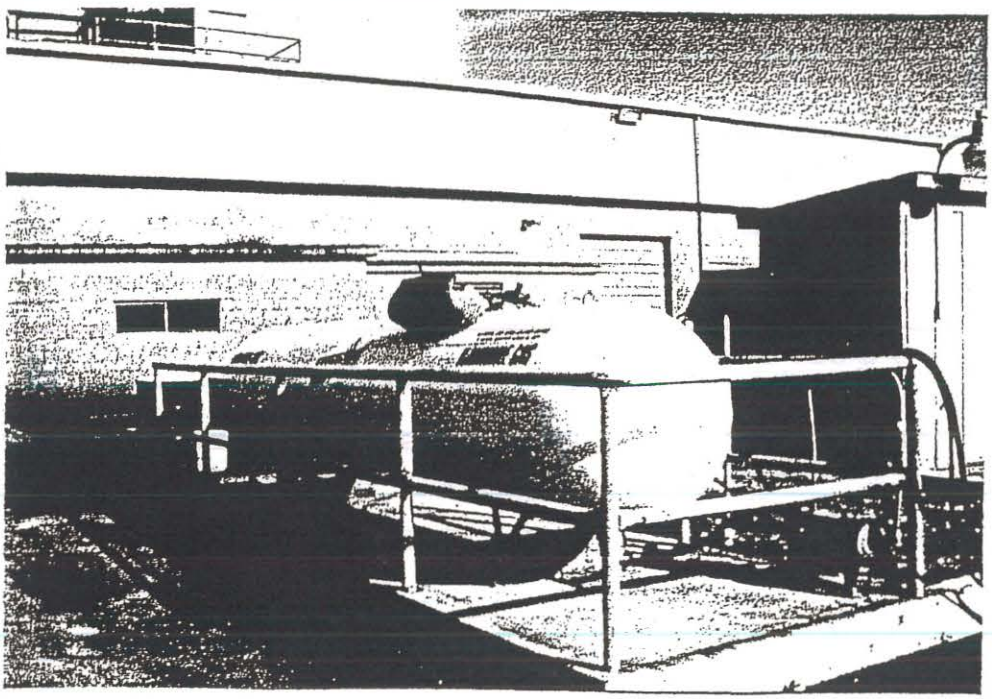
DESCRIPTION: Photo 20 - 25,000 gallon fuel storage tank. Located at southwest corner of main processing building.

J-U-B ENGINEERS, INC.

BOISE - NAMPA - TWIN FALLS
COEUR d'ALENE - KENNEWICK

DATE:November 4, 1993	JOB NO: 16229-08
PROJECT:Seneca Foods - ESA	
LOCATION:Sanofi Bio-Industries, Wapato, WA	

DESCRIPTION: Photo 21 - Oil stains on containment wall and tank.

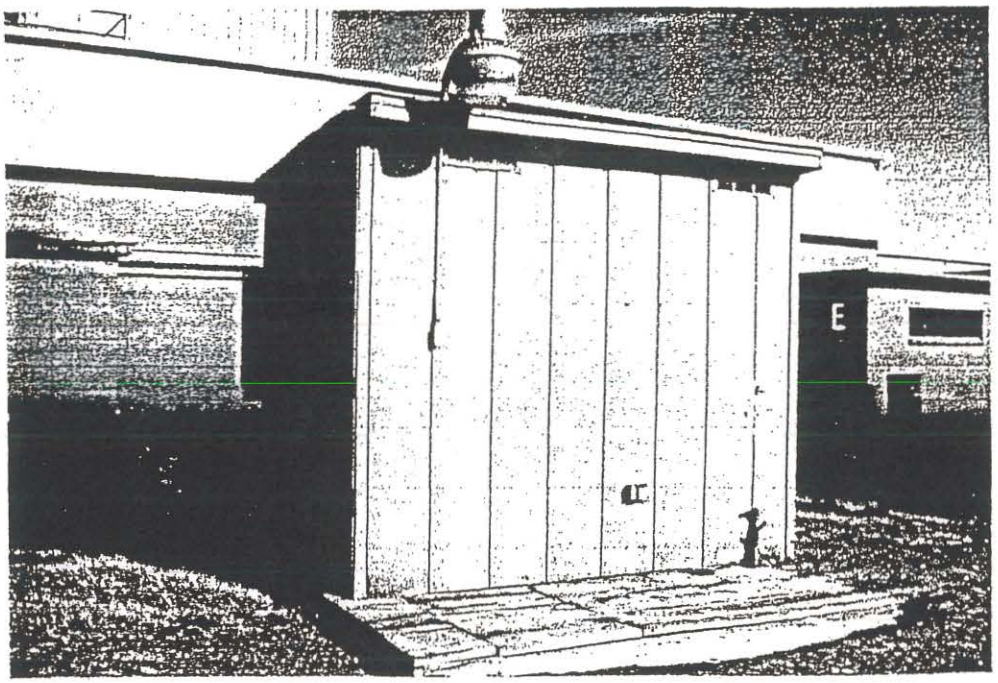


DESCRIPTION: Photo 22 - Large propane tank located south of the main processing building.

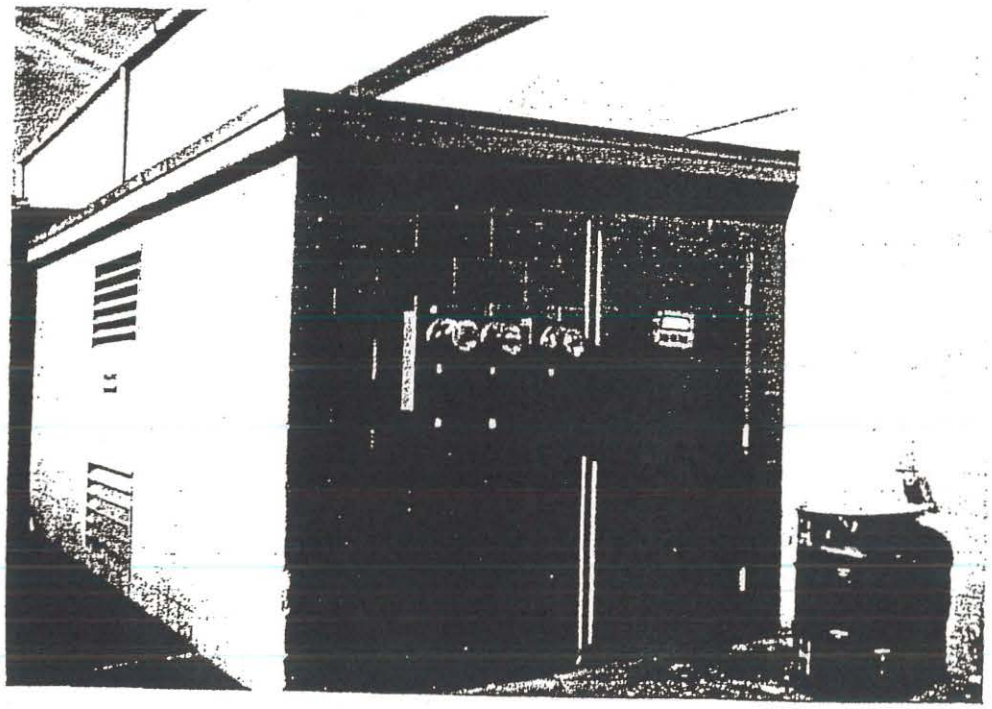
J-U-B ENGINEERS, INC.

BOISE - NAMPA - TWIN FALLS
COEUR d'ALENE - KENNEWICK

DATE:November 4, 1993	JOB NO: 16229-08
PROJECT:Seneca Foods - ESA	
LOCATION:Sanofi Bio-Industries, Wapato, WA	



DESCRIPTION: Photo 23 - Well house for water supply well. Located south of the main processing building.

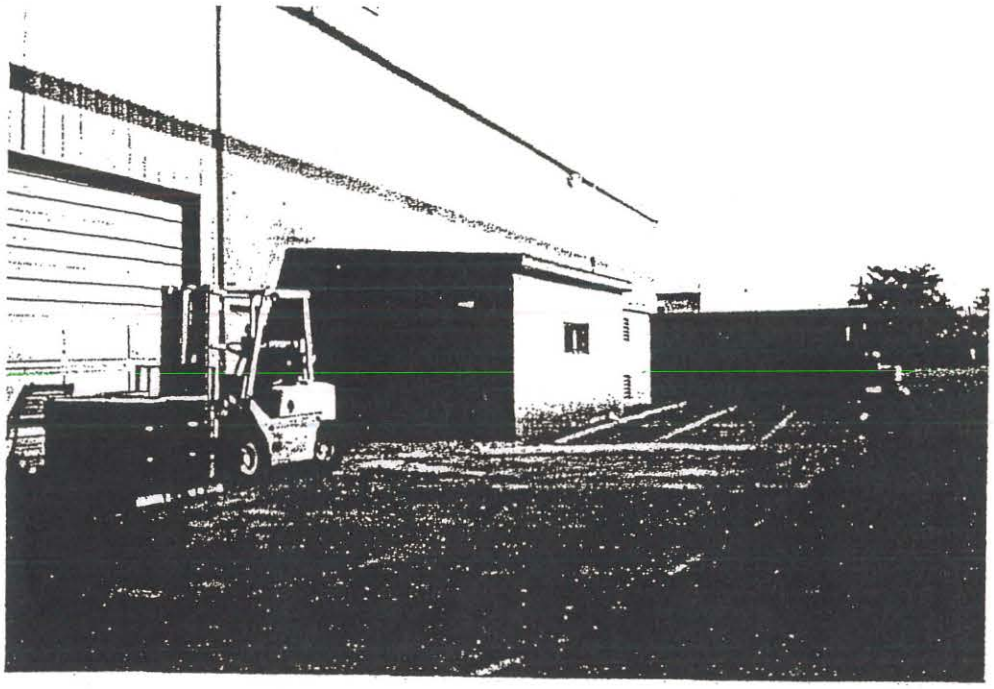


DESCRIPTION: Photo 24 - Electrical transformer building.

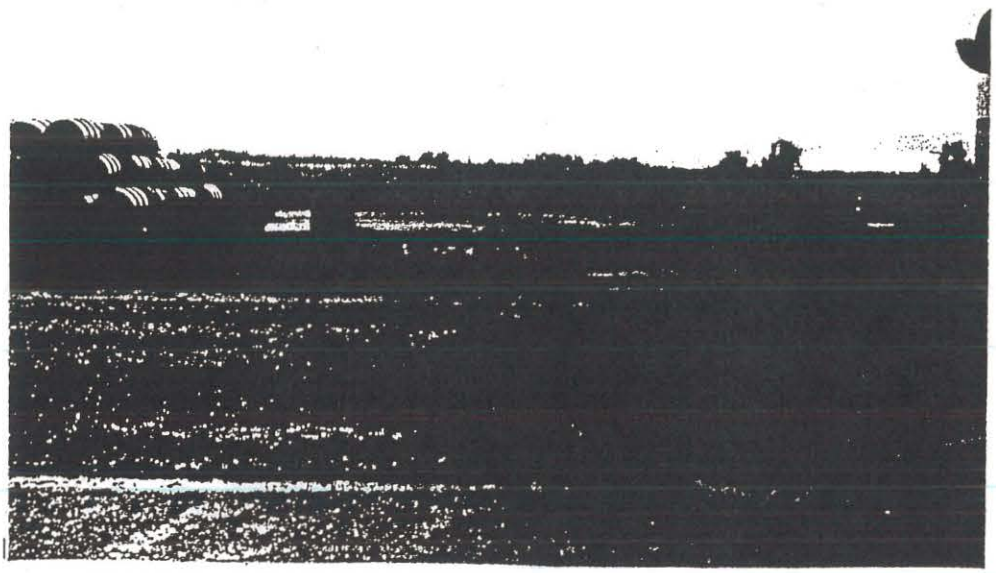
J-U-B ENGINEERS, INC.

BOISE - NAMPA - TWIN FALLS
COEUR d'ALENE - KENNEWICK

DATE:November 4, 1993	JOB NO: 16229-08
PROJECT:Seneca Foods - ESA	
LOCATION:Sanofi Bio-Industries, Wapato, WA	



DESCRIPTION: Photo 25 - Looking east from southwest corner of main processing building.

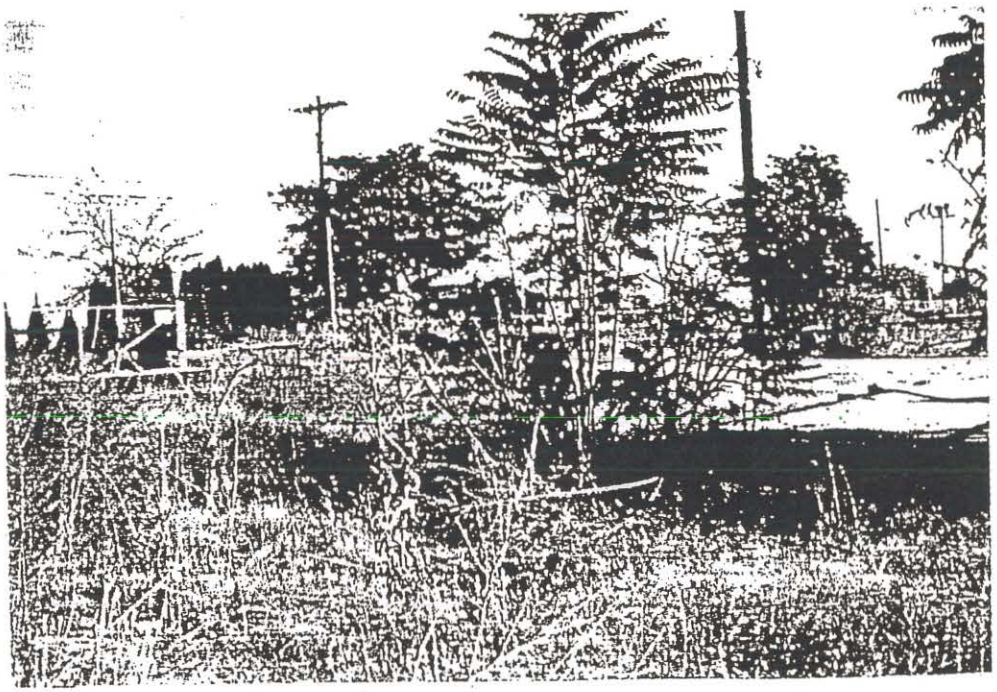


DESCRIPTION: Photo 26 - Looking south of Branch Road. Empty drum storage on the left, fire well in center, and cold storage building to the right.

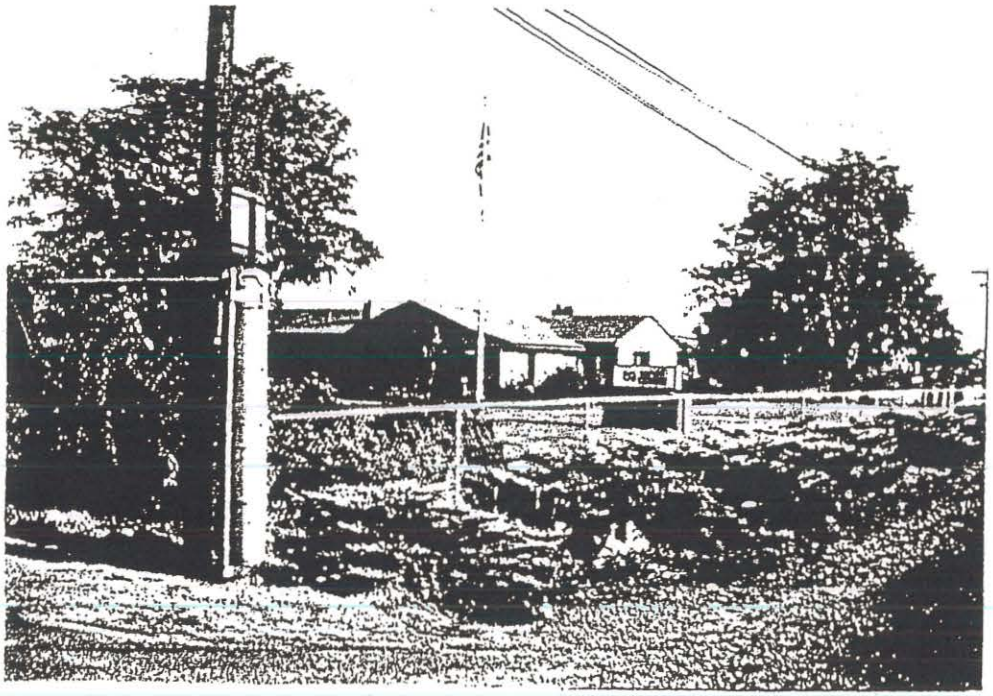
J-U-B ENGINEERS, INC.

BOISE - NAMPA - TWIN FALLS
COEUR d'ALENE - KENNEWICK

DATE: November 4. 1993	JOB NO: 16229-08
PROJECT: Seneca Foods - ESA	
LOCATION: Sanofi Bio-Industries, Wapato, WA	



DESCRIPTION: Photo 27 - Located south of Branch Road, looking northeast towards the main office. Old concrete foundation to the right.

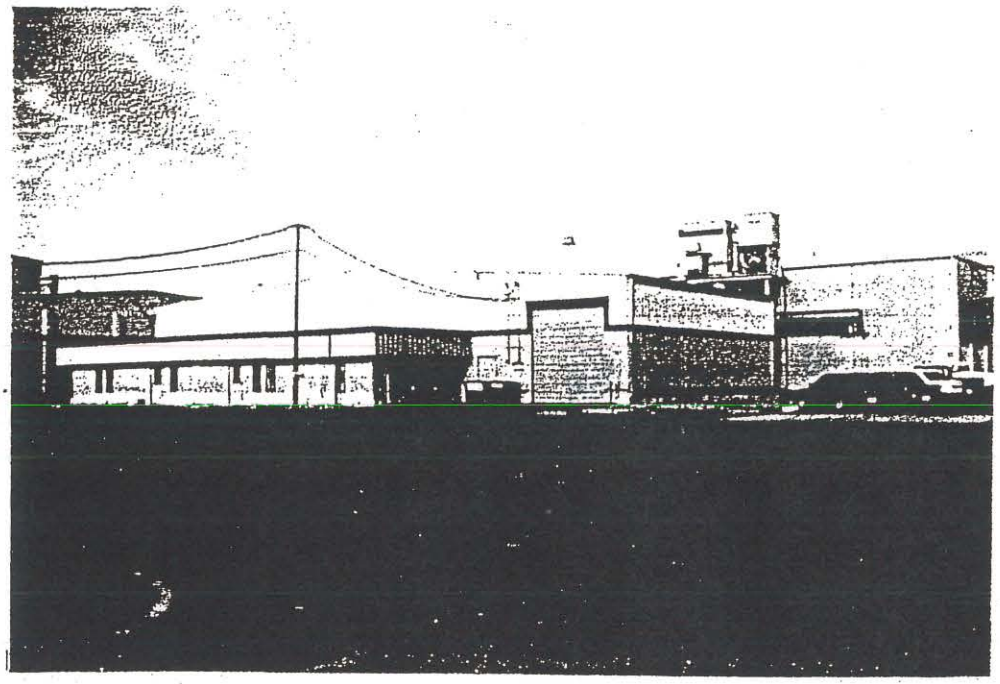


DESCRIPTION: Photo 28 - Main office for Sanofi Bio-Industries.

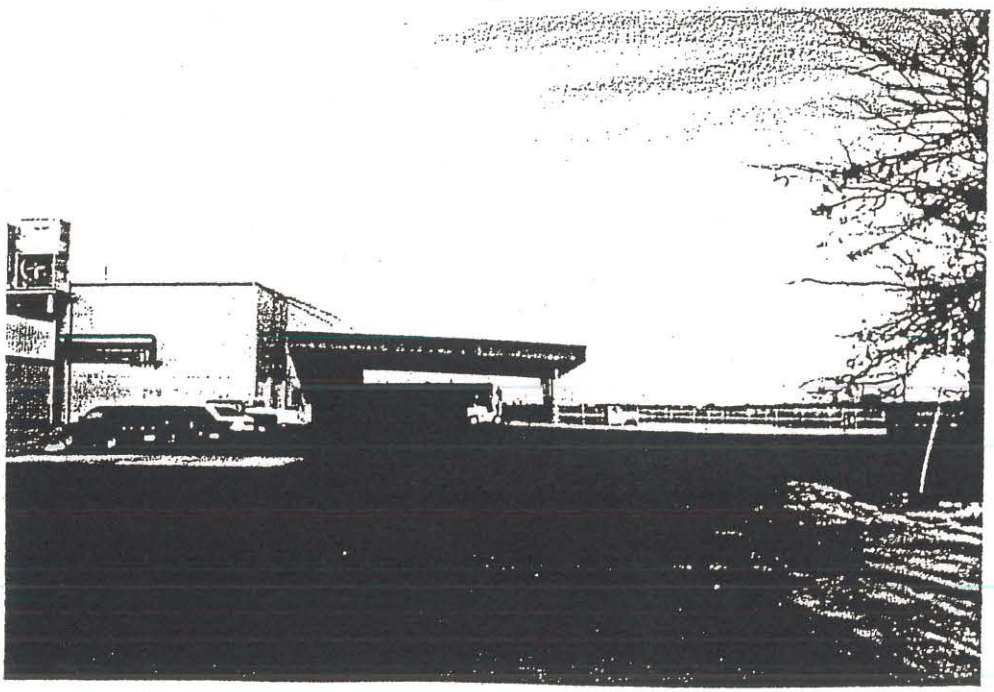
J-U-B ENGINEERS, INC.

BOISE - NAMPA - TWIN FALLS
COEUR d'ALENE - KENNEWICK

DATE:November 4, 1993	JOB NO: 16229-08
PROJECT:Seneca Foods - ESA	
LOCATION:Sanofi Bio-Industries, Wapato, WA	



DESCRIPTION: Photo 29 - Looking northwest at main processing building, offices, dry storage, and storage areas.



DESCRIPTION: Photo 30 - Looking north at loading dock and cold storage warehouses.

J-U-B ENGINEERS, INC.

BOISE - NAMPA - TWIN FALLS
COEUR d'ALENE - KENNEWICK

DATE:November 10, 1993	JOB NO: 16229-08
PROJECT:Seneca Foods - ESA	
LOCATION:Sanofi Bio-Industries, Wapato, WA	

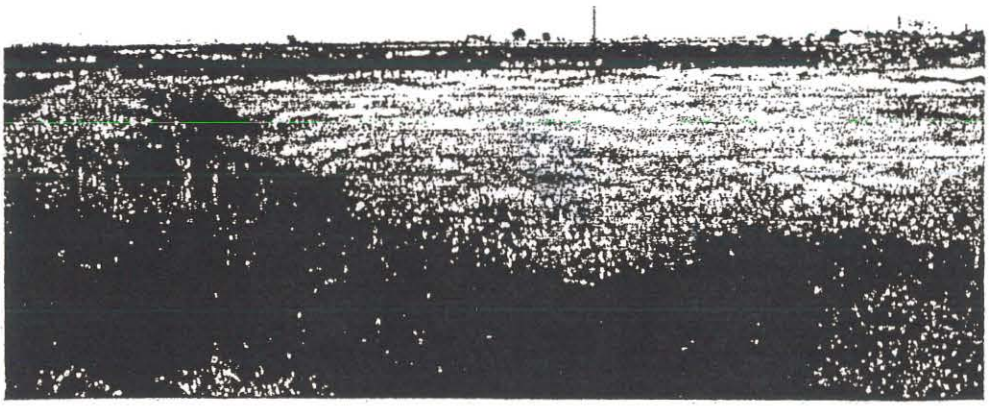
DESCRIPTION: Photo 31 - Clump of whitish material under vegetation located west of diatomaceous earth and rice hull storage area.

DESCRIPTION: Photo 32 - Close-up of whitish material.

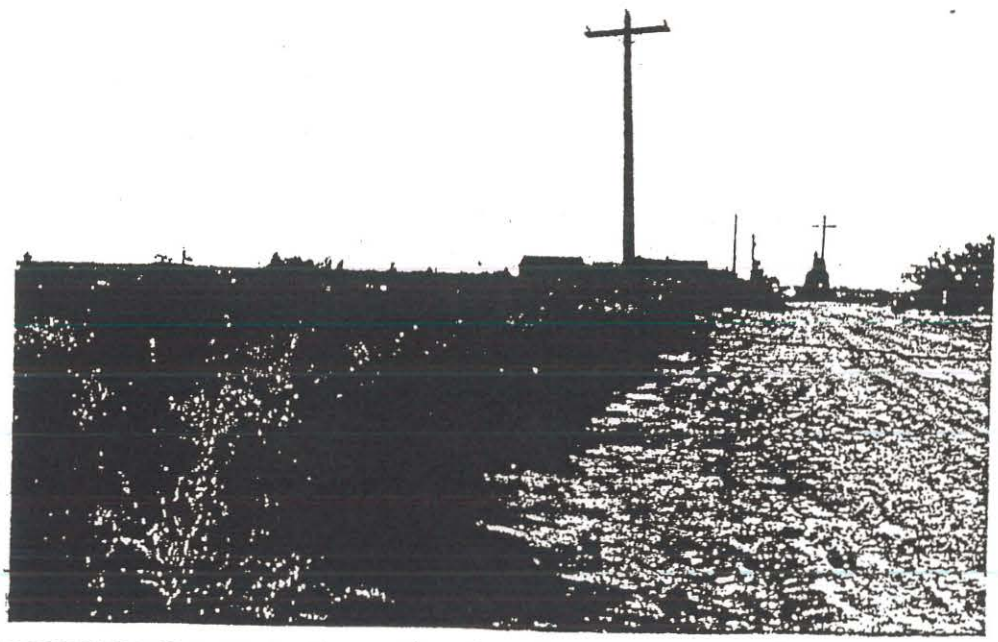
J-U-B ENGINEERS, INC.

BOISE - NAMPA - TWIN FALLS
COEUR d'ALENE - KENNEWICK

DATE: November 10, 1993	JOB NO: 16229-08
PROJECT: Seneca Foods - ESA	
LOCATION: Sanofi Bio-Industries, Wapato, WA	



DESCRIPTION: Photo 33 - Looking northwest towards sprayfield.



DESCRIPTION: Photo 34 - Looking west from the northern edge of the sprayfield toward Lateral B Road.

APPENDIX B - LEGAL DESCRIPTION

Schedule 1.1.7

Real Property Description

PARCEL A:

Government Lot 4, Section 30, Township 11 North, Range 19, E.W.M.

EXCEPT County Road right of way along the South and West lines thereof.

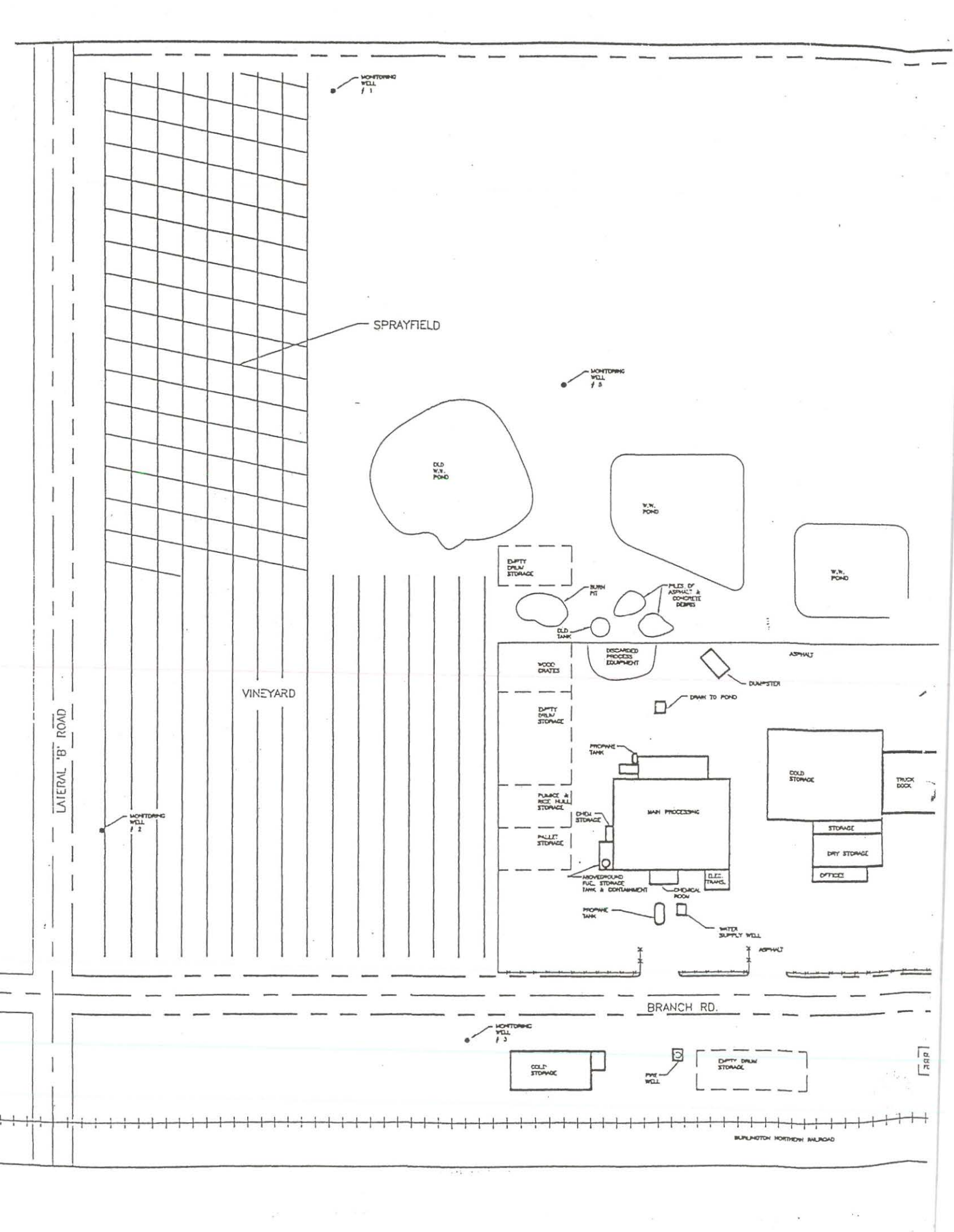
PARCEL B:

That part of Government Lot 1, Section 31, Township 11 North, Range 19, E.W.M., lying North of the North right of way line of Northern Pacific Railway Company and South of the South right of way line of County Road, said South line being described as:

Beginning on the West line of said lot South 0°11' West 30 feet from the Northwest corner of said Lot;
thence South 89°51' East 1597.21 feet, more or less, to a point on the East line of said lot South 00°09' West, 25 feet from the Northeast corner thereof,

EXCEPT the West 30 feet thereof, conveyed to Yakima County for road.

Situated in Yakima County, State of Washington.
ASSESSOR'S PARCEL NUMBERS: 191130-330003; 191131-22002 AREA CODE 562


MONITORING WELL # 1
SPRAYFIELD
MONITORING WELL # 3
OLD W.W. POND
W.W. POND
W.W. POND
EMPTY DRUM STORAGE
BURN PIT
PILES OF ASPHALT & CONCRETE DEBRIS
OLD TANK
VINEYARD
LATERAL "B" ROAD
WOOD CRATES
DISCARDED PROCESS EQUIPMENT
ASPHALT
DUMPSTER
DRAIN TO POND
EMPTY DRUM STORAGE
PROPANE TANK
COLD STORAGE
TRUCK DOCK
MONITORING WELL # 2
FURNACE & RICE HULL STORAGE
PALLET STORAGE
MAIN PROCESSING
CHEM. STORAGE
STORAGE
DRY STORAGE
OFFICES
ABOVEGROUND FUEL STORAGE TANK & CONTAINMENT
CHEMICAL ROOM
ELEC. TRANS.
PROPANE TANK
WATER SUPPLY WELL
ASPHALT
BRANCH RD.
MONITORING WELL # 3
COLD STORAGE
PIPE WELL
EMPTY DRUM STORAGE
BURLINGTON NORTHERN RAILROAD

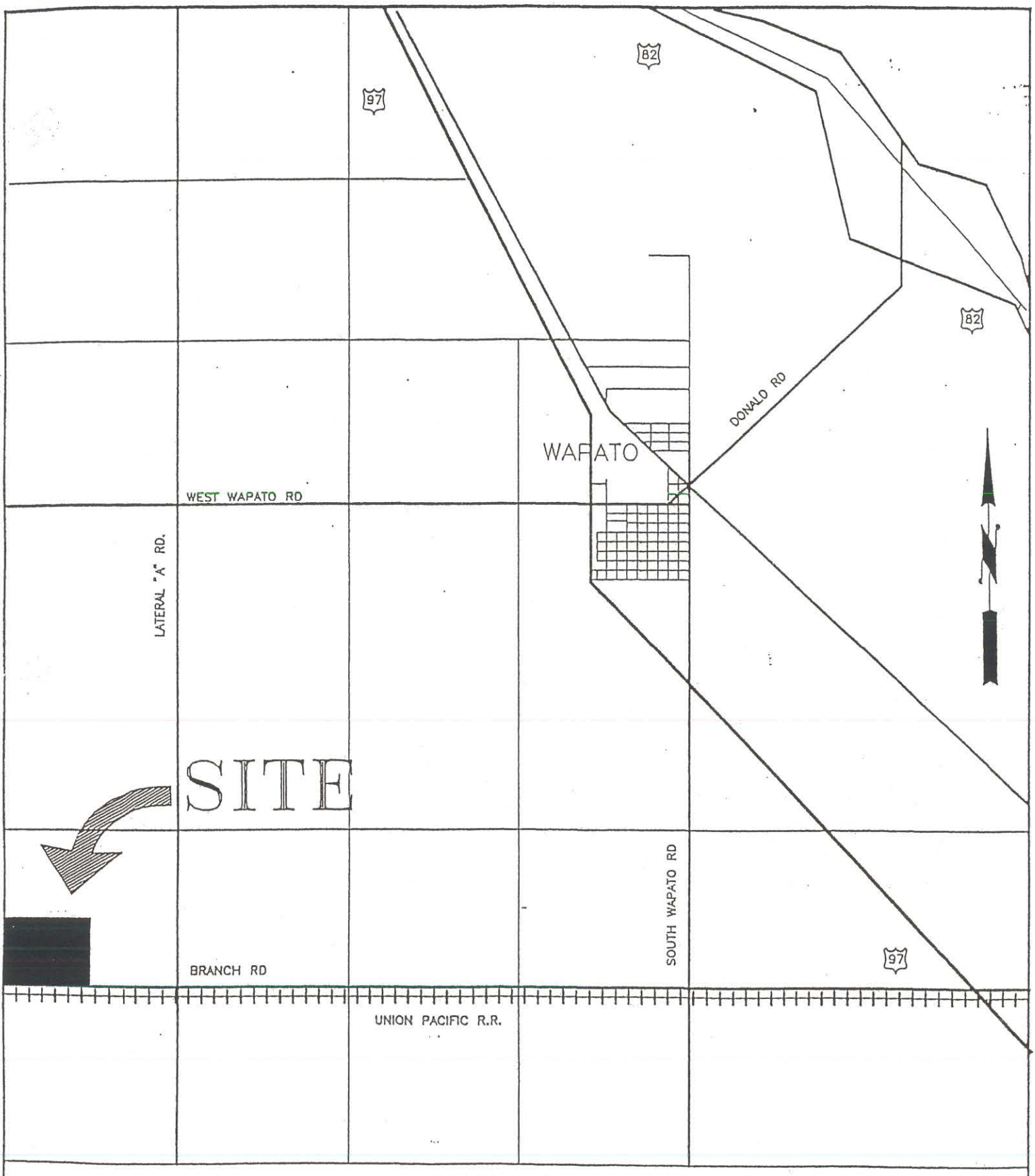
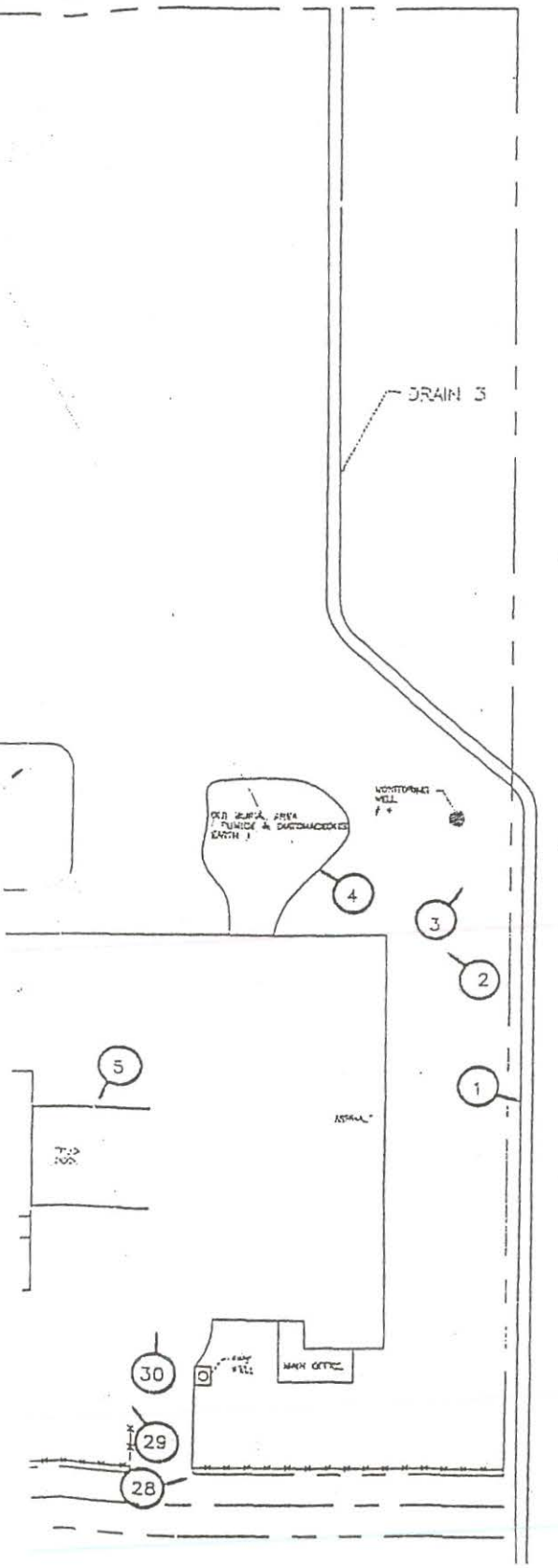

82
97
82
DONALD RD
WAPATO
WEST WAPATO RD
LATERAL "A" RD.
SITE
SOUTH WAPATO RD
97
BRANCH RD
UNION PACIFIC R.R.

FIGURE 1

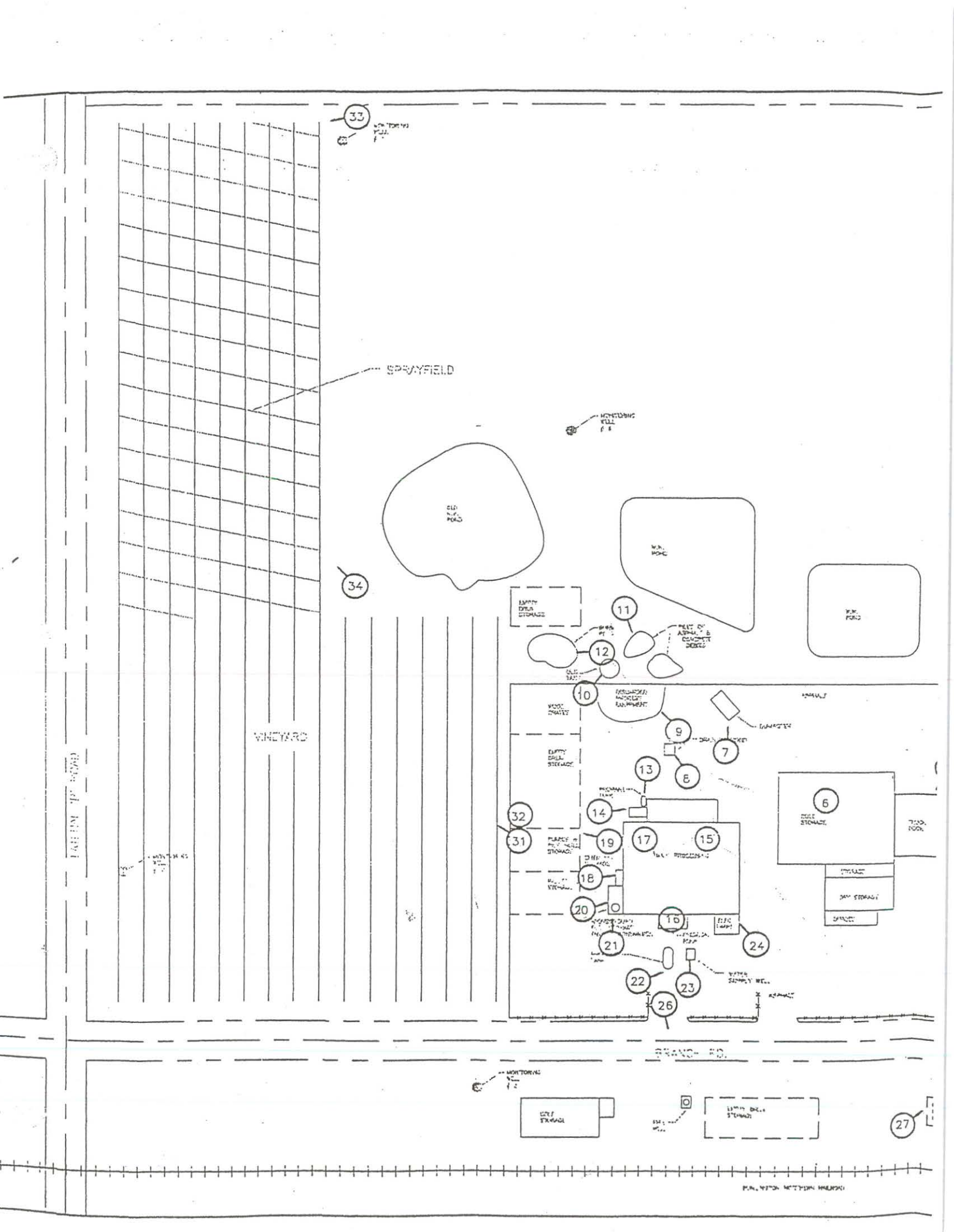


NOTE : BUILDINGS, STORAGE, WELLS AND OTHER IMPROVEMENTS OR AREAS ARE SHOWN IN AN APPROXIMATE LOCATION.

FIGURE 3

PHOTOGRAPH LOCATION MAP

NO SCALE


SPRAYFIELD
VINEYARD
EATON TOWNSHIP
BRAND RD.
MONITORING WELL
EMPTY DRUM STORAGE
WATER SUPPLY WELL
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
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17
18
19
20
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34

APPENDIX C - WELL LOGS

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 079633

Water Right Permit No. N

OWNER: Name SANOFI BIO IND Address 5661 BRANCH Rd. WAPATO

LOCATION OF WELL: County YAKIMA SW ¼ SW ¼ Sec. 30 T. 11 N., R. 19 W

(2a) STREET ADDDRESS OF WELL (or nearest address)

(3) PROPOSED USE: ☐ Domestic ☐ Irrigation ☐ DeWater ☐ Industrial ☐ Test Well ☐ Municipal ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) WELL #1 (N)

Abandoned ☐ New well ☒ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Cable ☐ Rotary ☒ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 2 inches. Drilled 35'4" feet. Depth of completed well 35'4" ft.

(6) CONSTRUCTION DETAILS:

Casing installed: _____ " Diam. from _____ ft. to _____ ft.
Welded ☐ Liner installed ☐ Threaded ☒ 2 " Diam. from 15 ft. to 0 ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☒ No ☐
Manufacturer's Name
Type PVC Model No.
Diam. 2 Slot size 10 from 15 ft. to 35 ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☒ No ☐ Size of gravel #8 SILICA
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 0-3' ft.
Material used in seal BENTONITE - CEMENT TO 1'
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 16'10 ft. below top of well Date 2-20-92
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTIC

Formation: Describe by color, character, size of material and structure, and sh thickness of aquifers and the kind and nature of the material in each stratum penetrat with at least one entry for each change of information.

MATERIAL		FROM	TO
TOPSOIL & GRAVEL	MS	0	16"
SAND GRAVEL COBBLES	M	16"	28
SAND	MS	28	31
SAND GRAVEL	M	31	35'

Work started 2-20-92, 19. Completed 2-21-92, 19

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this wel and its compliance with all Washington well construction standards Materials used and the information reported above are true to my bes knowledge and belief.

NAME RIEBE WELL DRILLING INC (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Address PO BOX 10866 YAKIMA WA.
(Signed) WENTZ (WELL DRILLER) License No. 1828
Contractor's Registration No. 132K1 Date 2-29-92, 19

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 079633

Water Right Permit No. _____

OWNER: Name SANOFI BIO-IND. Address 5661 BRANCH Rd. WAPATO WA.

LOCATION OF WELL: County YAKIMA SW ¼ SW ¼ Sec 30 T 11 N., R 19 W.

(2a) STREET ADDDRESS OF WELL (or nearest address) _____

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☒ Other ☐ ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) WELL #2 (5)

Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 2 inches. Drilled 35'4" feet. Depth of completed well 35'4" ft.

(6) CONSTRUCTION DETAILS:

Casing installed: _____ " Diam. from _____ ft. to _____ ft.

Welded ☐ _____ " Diam. from _____ ft. to _____ ft.

Liner installed ☐

Threaded ☒ 2 " Diam. from 0 ft. to 15 ft.

Perforations: Yes ☐ No ☒

Type of perforator used _____

SIZE of perforations _____ in. by _____ in.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☒ No ☐

Manufacturer's Name _____

Type PVC Model No. _____

Diam. 2 Slot size 10 from 15 ft. to 35 ft.

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☒ No ☐ Size of gravel #8 SILICA

Gravel placed from 7 ft. to 35 ft.

Surface seal: Yes ☒ No ☐ To what depth? 2' TO 7' ft.

Material used in seal BENTONITE - CEMENT 2' TO 0

Did any strata contain unusable water? Yes ☐ No ☐

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____

Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.

Static level 16' ft. below top of well Date 2-24-92

Artesian pressure _____ lbs. per square inch Date _____

Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.

Artesian flow _____ g.p.m. Date _____

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTIO

Formation: Describe by color, character, size of material and structure, and sh thickness of aquifers and the kind and nature of the material in each stratum penetrat with at least one entry for each change of information.

MATERIAL		FROM	TO
TopSoil	S	0	1'5
GRAVEL & COBBLES with SAND		1'5"	19
BLUE CLAY COBBLES	H	19	22
GRAVEL WITH SAND	A	22	24
SAND GRAVEL COBBLES	H	24	27
SAND GRAVEL		27	33
GRAVEL SAND COBBLES		33	35'

Work started 2-21-92, 19. Completed 2-21-92, 19

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my bes knowledge and belief.

NAME RIEBE WELL DRILLING (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address PO BOX 10866 YAKIMA WA.

(Signed) WENTZ (WELL DRILLER) License No. 1828

Contractor's Registration No. 132KL Date 2-29-92, 19

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 079633

Water Right Permit No. _____

OWNER: Name SANOFI BIO-IND. Address 5661 BRANCH RD WAPATO

(1) LOCATION OF WELL: County YAKIMA SW ¼ SW ¼ Sec 30 T 11 N., R 19

(2a) STREET ADDDRESS OF WELL (or nearest address) (LATERAL B - WEST)

(3) PROPOSED USE: ☐ Domestic ☐ Irrigation ☐ DeWater ☐ Industrial ☐ Test Well ☒ Municipal ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) WELL #3

Abandoned ☐ New well ☒ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Cable ☐ Rotary ☒ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 2 inches. Drilled 36 feet. Depth of completed well 36 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: _____" Diam. from _____ ft. to _____ ft.

Welded ☐ Liner installed ☐ Threaded ☒ 2" Diam. from 0 ft. to 16 ft.

Perforations: Yes ☐ No ☒

Type of perforator used _____

SIZE of perforations _____ in. by _____ in.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☒ No ☐

Manufacturer's Name _____

Type PVC Model No. _____

Diam. 2" Slot size 10 from 16' ft. to 36' ft.

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☒ No ☐ Size of gravel #8 SILICA

Gravel placed from 10 ft. to 36 ft.

Surface seal: Yes ☒ No ☐ To what depth? _____ ft.

Material used in seal BENTONITE - 5'-10' CEMENT 5'-0'

Did any strata contain unusable water? Yes ☐ No ☐

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____

Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.

Static level 16 ft. below top of well Date 2-24-92

Artesian pressure _____ lbs. per square inch Date _____

Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.

Artesian flow _____ g.p.m. Date _____

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTI

Formation: Describe by color, character, size of material and structure, and s thickness of aquifers and the kind and nature of the material in each stratum penetra with at least one entry for each change of information.

MATERIAL		FROM	TO
TOPSOIL		0	6'
SANDY GRAVEL	H	6"	3'
COBBLES GRAVEL SAND	H	3	9
SANDY GRAVEL COBBLES	H	9	14
LARGE COBBLES	VH	14	22
SAND GRAVEL	H	22	23
SAND GRAVEL COBBLES	H	23	25
CLAY WITH GRAVEL	H	25	28
SAND	S	28	33
GRAVEL WITH SAND	H	33	36

Work started 2-24-92, 19. Completed 2-24-92, 19.

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this we and its compliance with all Washington well construction standarc Materials used and the information reported above are true to my be knowledge and belief.

NAME RIEBE WELL DRILLING (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address PO BOX 10866 YAKIMA WA.

(Signed) WENTZ (WELL DRILLER) License No. 1828

Contractor's Registration No. 132K1 Date 2-29-92, 19

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 079633

Water Right Permit No. NI

OWNER: Name SANOFI BIO-IND Address 5661 BRANCH RD WAPATO WA

(2) LOCATION OF WELL: County YAKIMA SW ¼ SW ¼ Sec 30 T 11 N., R 19

(2a) STREET ADDDRESS OF WELL (or nearest address) EAST OF SITE

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☑ Test Well ☐ Other ☐ ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) WELL # 4

Abandoned ☐ New well ☑ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 2 inches. Drilled 30 feet. Depth of completed well 30 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: _____" Diam. from _____ ft. to _____ ft.
Welded ☐ _____" Diam. from _____ ft. to _____ ft.
Liner installed ☐
Threaded ☒ 2" Diam. from 0 ft. to 10 ft.

Perforations: Yes ☐ No ☒
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☒ No ☐
Manufacturer's Name _____
Type PVC Model No. _____
Diam. 2" Slot size 10 from 10 ft. to 30 ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☒ No ☐ Size of gravel #8 SILICA
Gravel placed from 5 ft. to 30 ft.

Surface seal: Yes ☒ No ☐ To what depth? _____ ft.
Material used in seal BENTONITE -2'-5' CEMENT 2'-0'
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 15' 7" ft. below top of well Date 2-25-92
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTI

Formation: Describe by color, character, size of material and structure, and s thickness of aquifers and the kind and nature of the material in each stratum penetr with at least one entry for each change of information.

MATERIAL		FROM	TO
TOP SOIL WITH GRAVEL	S	0	2
SAND GRAVEL	MH	2	10
SAND GRAVEL COBBLES	H	10	14
CLEAN SAND	S	14	16
SAND GRAVEL	MH	16	19
SANDY GRAVEL & COBBLES		19	30

Work started 2-25-92, 19. Completed 2-25-92, 19.

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this w and its compliance with all Washington well construction standa Materials used and the information reported above are true to my b knowledge and belief.

NAME RICE WELL DRILLING (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address PO BOX 10866 YAKIMA WA.

(Signed) WONTZ (WELL DRILLER) License No. 1828

Contractor's Registration No. 132K1 Date 2-29-92, 19

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 074633

Water Right Permit No. _____

OWNER: Name SANOFI BIO-IND. Address 5661 BRANCH RD, WAPATO WA.

LOCATION OF WELL: County YAKIMA SW ¼ SW ¼ Sec 30 T. 11 N., R. 19 W.

(2a) STREET ADDDRESS OF WELL (or nearest address) CENTER OF SITE

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☒ Test Well ☐ Other ☐ ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) WELL # 5

Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 2 inches. Drilled 30 feet. Depth of completed well 30 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: _____ " Diam. from _____ ft. to _____ ft.
Welded ☐ _____ " Diam. from _____ ft. to _____ ft.
Liner installed ☐
Threaded ☒ 2 " Diam. from 0 ft. to 10 ft.

Perforations: Yes ☐ No ☒
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☒ No ☐
Manufacturer's Name _____
Type PVC Model No. _____
Diam. 2 Slot size 10 from 10 ft. to 30 ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☒ No ☐ Size of gravel #8 SILICA
Gravel placed from 6 ft. to 30' ft.

Surface seal: Yes ☒ No ☐ To what depth? _____ ft.
Material used in seal BENTONITE 3'-6' CEMENT 0'-3'
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 16 ft. below top of well Date 2-26-92
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTIO

Formation: Describe by color, character, size of material and structure, and sh thickness of aquifers and the kind and nature of the material in each stratum penetrat with at least one entry for each change of information.

MATERIAL	FROM	TO
COBBLES SAND GRAVEL H	0	21
SANDY CLAY, COBBLES GRAVEL H	21	22.
SAND GRAVEL H	22.5	24
SANDY CLAY SILT GRAVEL COBBLES H	24	30

Work started 2-24-92, 19. Completed 2-26-92, 19

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this w and its compliance with all Washington well construction standar Materials used and the information reported above are true to my b knowledge and belief.

NAME RIEBE WELL DRILLING (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address POBox 10866 YAKIMA WA.

(Signed) WELL DRILLER License No. 1828

Contractor's Registration No. 13241 Date 2-29-92, 19

APPENDIX D - CHAIN OF TITLE

FOUNDED 1909

Schreiner Title Co. (AGENT FOR TRANSAMERICA TITLE INSURANCE CO.) Title Insurance - Escrows

10 NORTH SECOND STREET • YAKIMA, WASHINGTON 98901 • PHONE (509) 248-5801
FAX (509) 453-0798

YVONNE SCHREINER
PRESIDENT-MANAGER

PARCEL NUMBER: 191130-33003

Fifty year chain of title for Sanofi Bio-Industries, Inc.

12-29-43	D	1045928	Frances Warring	Edgar Gimlin	
4-25-45	D	1087158	Edgar Gimlin	Robert Ermey	
6-23-60	R/W	1827890	Robert Ermey	Y.C.W.	
4-18-69	D	2190823	Robert Ermey	L.V. Burns	Ptn.
5-7-69	D	2192371	L.V. Burns	Robert E. Ermey	Ptn.
6-13-69	D	2195765	Robert E. Ermey	Food Packers Co.	
6-13-69	D	2195766	Food Packers Co.	Ermey Vineyards	
7-1-69	D	2197406	Ermey Vineyards	Robert E. Ermey	Ptn.
10-27-77	M. Agree	2480799	Agnes V. Ermey	Ermey Vineyards	Rerec
11-18-77	"	2483419	Rerecord		
11-13-79	Cont	2565705	Agnes V. Ermey (exec)	Gama Foods Inc.	Ptn
11-16-79	Survey	2566083	Book 25 P74		
1-14-81	D	2604762	Agnes V. Erney (exec)	Gama Foods Inc.	
3-14-86	FS	2757887	Gama Foods Inc.	Foothill Capital Corp. Cont.	
6-5-86	Agree	2765920	Edward Bachmeier	Yakima Fruit & Cold Stor.	
9-30-86	D	2777022	Gama Foods Inc.	Gama Foods Acquiring Corp.	
11-21-86	Survey	2782256	Book 41 P74		
6-27-88	Lis Pend	2833348	Oscar Daniels	Gama Foods Acquiring Corp.	
10-21-88	D	2843351	Ingredient Technology	DeClark New Jersey	
10-21-88	D/T	2843352	Declark New Nersey	Midatlantic Natl Bank	
10-21-88	F/S	2843353	Continental Flavors	Midatlantic Natl Bank	
10-21-88	F/S	2843354	DeClark New Jersey	Midatlantic Natl Bank	
4-11-89	F/S Assn	2857175	Midatlantic Natl Bank	US Bank of Washington 2843354	
10-23-89	F/S	2873749	DeClark New Jersey	Security Pacific Bank	
12-21-89	Lien	2878706	W.E. Stone & Co. Inc.	Continental Concentrates	
1-9-90	D	2880031	DeClark New Jersey	Sanofi Bio-Industries	

FOUNDED 1909

Schreiner Title Co. (AGENT FOR TRANSAMERICA TITLE INSURANCE CO.) Title Insurance - Escrows

D NORTH SECOND STREET • YAKIMA, WASHINGTON 98901 • PHONE (509) 248-5801
FAX (509) 453-0798

YVONNE SCHREINER
PRESIDENT-MANAGER

PARCEL NUMBER: 191131-22002

Fifty year chain of title for Sanofi Bio-Industries, Inc.

9-7-55	D	1584864	Federal Land Bank	Pearl Doty
6-26-58	D	1726681	Jasper Doty	Robert E. Ermey
8-18-61	D	1875867	Robert E. Ermey	Ermey Vineyards
3-14-86	F/S	2757887	Gama Foods	Foothill Capital Corp
9-30-86	D	2777022	Gama Foods	Gama Foods Acquiring Corp
11-21-86	Survey	2782256	Book 41 P74	
6-27-88	Lis Pend	2833348	Oscar Daniels	Gama Foods
10-21-88	D	2843351	Ingredient Tech Corp	DeClark New Jersey
10-21-88	D/T	2843352	DeClark New Jersey	Midatlantic Natl Bank
10-21-88	F/S	2843353	Continental Flavors	Midatlantic Natl Bank
10-21-88	F/S	2843354	DeClark New Jersey	Midatlantic Natl Bank
4-11-89	F/S assn	2857175	Midatlantic Natl Bank	US Bank of Washington 2843354
10-23-89	F/S	2873749	DeClark New Jersey	Security Pacific Bank
12-21-89	Lien	2878706	W.E. Stone & Co. Inc.	Continental Concentrates
1-9-90	D	2880031	DeClark New Jersey	Sanofi Bio Industries

APPENDIX E - UST CLOSURE DOCUMENTATION

SITE ASSESSMENT REPORT FOR UNDERGROUND STORAGE TANK CLOSURE AT SANOFI BIO-INDUSTRIES WAPATO, WA

For:

Sanofi Bio-Industries
5661 Branch Road
Wapato, WA 98951

By:

David L. Green, R.S.A.
Engineering Geologist

WHITE SHIELD, INC.
P.O. Box 477
Grandview, WA 98930

August, 1991

WHITE SHIELD, INC.

P.O. BOX 477 • GRANDVIEW, WA 98930 • (509) 882-1144
FAX (509) 882-4566

August 23, 1991

Sanofi Bio-Industries
5661 Branch Road
Wapato, WA 98951

Attention: Mark Meyer,

SUBJECT: SITE ASSESSMENT REPORT FOR CLOSURE OF UNDERGROUND STORAGE TANK AT SANOFI BIO-INDUSTRIES, WAPATO, WA.

Dear Mr. Meyer,

Please find two copies of the site assessment report as required by the Washington State Department of Ecology. Based on the data and findings reported herein, we find no evidence of petroleum contamination associated with the operation or removal of the underground storage tank.

The DOE requires that you retain this report for a minimum of ten years. We recommend you retain it indefinitely. The DOE also requires us to submit a copy of the Underground Storage Tank Site Check/Site Assessment Checklist and a copy of Notice of Permanent Closure of Underground Storage Tanks to the Olympia office and it is attached to this report as Appendix D and E.

We appreciate the opportunity to provide you technical assistance for your tank closure. Please call me at (509) 882-1144 should you have any questions or comments.

Respectfully Yours,
WHITE SHIELD, INC.

David L. Green, R.S.A.
Engineering Geologist

Project Number: MPS-0491

cc: lb
U.S. Environmental Protection Agency, Olympia, WA
Department of Ecology, Olympia, WA
Department of Ecology, Central Regional Office

Sanofi Bio-Industries, Wapato, WA

Executive Summary

White Shield, Inc. (WSI) provided closure site assessment services upon removal of one 1,000 gallon heating oil (diesel) tank located at the Sanofi Bio-Industries property in Wapato, WA. We tested the soil for petroleum contamination as required by the Guidance for Site Checks and Site Assessments for Underground Storage Tanks. We conducted our initial investigation on August 20, 1991. Based on our visual observations, analytical laboratory analyses, olfactory responses (smell), and interviews, we find no evidence of petroleum contamination associated with the operation or removal of the tank.

Sanofi Bio-Industries, Wapato, WA

TABLE OF CONTENTS

1.0 Introduction

1.1 Purpose

This report describes findings and actions taken for work associated with the Underground Storage Tank removal. The work and investigation responds to regulatory requirements set forth by the United States Environmental Protection Agency (EPA) and the State of Washington, Department of Ecology (DOE).

1.2 Scope of Work

This report completes site assessment services, provided by White Shield, Inc. (WSI), for one 1,000 gallon heating oil (diesel) tank on the Sanofi Bio-Industries property, Wapato, WA. Major Petroleum Service Co. provided the decommissioning services.

2.0 Background Information

2.1 Site Location

The site is located at 5661 Branch Road, Wapato, Washington. It is located within the NE 1/4 of the NW 1/4 of Section 31, Township 11 North, Range 19 East, Willamette Meridian.

2.2 Site Description and History

We understand that this tank formerly stored heating oil (diesel) for heating purposes. The tank was removed on August 20, 1991.

2.3 Soils Description

Our inspection of the soil found poorly sorted Yakima River gravels up to 6 inches in diameter.

3.0 Field Activities

3.1 General Investigative Methods

We visually inspected the tank, the soil and the fill. We also used field screening,

analytical laboratory analyses, olfactory responses (smell), and interviews for data. The methods and general conclusions are discussed below.

3.2 Tank Inspection

We removed attached soil and scale to completely expose the tank. With the soil and scale removed, we carefully examined the tank. The steel tank exhibited moderate corrosion.

3.3 Site Assessment

Debbie Chulos, an environmental technician registered with the Washington State Department of Ecology Underground Storage Tank Program, performed the closure site assessment on August 20, 1991 after removal of the tank. The attached Field Form for Site Assessment of Underground Storage Tanks (Appendix A) provides a site map and other key data.

We observed no signs of diesel contamination in the soil. We collected 6 soil samples and submitted them to Materials Testing and Consulting, Mt. Vernon, Washington, for laboratory analysis. The sample locations are shown on the Field Form and the analysis results are shown in Appendix B. As required by the DOE, we have completed the Underground Storage Tank Site Check/Site Assessment Checklist and the "Notice of Permanent Closure of Underground Storage Tank(s) and submitted them to the Olympia office. These are presented in this report as Appendix D and E, respectively.

4.0 Investigative Methods and Results

4.1 Field Screening

For field analysis of semi-volatile (diesel) compounds, we used Thin Layer Chromatography (TLC) for qualitative and quantitative analysis. This analytical technique utilizes the principle of chromatography to separate individual components for comparison to known standards.

TLC is classified as a solid-liquid chromatographic system, meaning there are two phases through which an extract of the sample is passed; a solid phase (silica gel) and a liquid phase (a solvent such as hexane).

The solid phase is stationary and is coated on a glass plate. During the chromatography process, the liquid phase carries the sample through the solid phase. The

solvent moves at a fairly constant rate through the solid phase. However, the compound in the sample (analyte) are partitioned by a relative attractiveness of the analyte between the solid phase and the liquid phase. Analytes strongly attracted to the silica will remain on the silica longer and move more slowly than analytes that are not as strongly attracted to the silica. When the chromatography is stopped, the distance the analyte has moved relative to the distance the solvent has moved is used to identify the compound. When the plate is viewed under ultraviolet light, the analytes can be seen and compared to standards of known concentration for quantitative analysis.

4.2 Soil Sampling

The Field Form (Appendix A) presents the location, quantity and types of samples taken. In general, sample collection and control followed the following protocol:

1. Select a laboratory certified clean sample jar for sample collection.

2. Using clean latex gloves and clean sampling utensils (tri-sodium phosphate, chlorine solution, tap water rinse and distilled water rinse cycle) tightly pack the soil sample in the sample jar (4 oz.) to the top of the jar to prevent any airspace.

3. Label the jar with the soil sample number, the type of laboratory test required, the date, name of site and sampler. The sample is then entered on the chain of custody form.

4. Cool the sample in wet ice to approximately 4 degrees centigrade.

5. Repack the samples for shipment to the laboratory in blue ice and a cooler.

6. Relinquish sample to courier for shipment to the laboratory.

4.3 Soil Chemistry

Laboratory analysis of soil samples collected from the floor of the diesel tank excavation found no detectable petroleum hydrocarbons in the soil. Results of the analyses are shown in Appendix B. Comparison of the analyses results with Action Levels for Petroleum Releases (Appendix C) indicates that no cleanup action is required.

5.0 Conclusion

Our investigation found petroleum contamination associated with the operation or removal of the tank.

6.0 Limitations

In performing our professional services, we used a degree of care ordinarily exercised under similar circumstances by members of our profession. No warranty, expressed or implied, is made or intended. Our conclusions and recommendations, developed from our field and laboratory investigation reported herein, are based upon this firm's understanding of the tank removal project and are in concurrence with generally accepted practice.

Appendix F - Electrical Transformer PCB Test Results

FAX COVER SHEET

BENTON RURAL ELECTRIC ASSOCIATION
P. O. BOX 1150
PROSSER, WASHINGTON 99350

Phone (509) 786-2913
Fax (509) 786-2231

DATE: 11/9/93

NO. OF PAGES (including cover sheet) 9

TO: Beth Cochur

COMPANY: JUB Engineers

FAX #: 1-736-0790

FROM: Rich - Benton REA

COMMENTS: Transformers at the locations asked for this date

11/09/93 CHANGE RE - TRANSFORMER MASTER FILE 14,375 of 15,332 Rcd

AL NO: WES84A350235

: 25 TYPE : DB CONV PHASE : 1

PRI VOLTS: 7.2/12.46 SEC. VOLT: 120/240 IMP : 2.50

TAPS(Y/N): N TAP TYPE :

P.O. NO. : 3719 LINE NO. : DATE PUR: 11/20/84

VENDOR : UNIT $: 512.05

DATE INST: 01/27/86 JOB ORDER: 959M LOCATION: 0010-30-0009

SUB CODE : 03 SUB NAME : ERNEY

FEEDER : PHASE : DATE RMV:

JOB ORDER: REASON :

PCB DATE : 06/30/88 TEST NO. : 016-88f PPM : 0

P.O. NO. : 4833 LINE NO. : 4

DATE SHIP: TRANSPORT:

MANIFEST : WEIGHT : .00 DATE INC:

DISP CODE: DISP NAME:

STATUS(1=STOCK;2=FIELD;3=PCB;4=ARCHIVED;0=DELETE): 2

TYDEN QUAD v5.6 - <F1>Help <End>Exit or <F10> to SAVE Record

11/09/93 CHANGE RE - TRANSFORMER MASTER FILE 9,058 of 15,332 Rcd

SERIAL NO:	WES4084270				
[illegible] :	250	TYPE :		PHASE :	1
PRI VOLTS:	7200/12470	SEC. VOLT:	240/480	IMP :	3.60
TAPS(Y/N):	Y	TAP TYPE :	(5) 2 1/2%		
P.O. NO. :		LINE NO. :		DATE PUR:	08/06/69
VENDOR :				UNIT $:	1570.83
DATE INST:	09/25/69	JOB ORDER:	9202	LOCATION:	0010-30-0015
SUB CODE :	03	SUB NAME :	ERMEY		
FEEDER :		PHASE :		DATE RMV:	
JOB ORDER:		REASON :			
PCB DATE :	10/21/87	TEST NO. :	453-87	PPM :	2
P.O. NO. :	4690	LINE NO. :	17		
DATE SHIP:		TRANSPORT:			
MANIFEST :		WEIGHT :	.00	DATE INC:	
DISP CODE:		DISP NAME:			

STATUS(1=STOCK;2=FIELD;3=PCB;4=ARCHIVED;0=DELETE): 2

TYDEN QUAD v5.6 - <F1>Help <End>Exit or <F10> to SAVE Record

11/09/93 CHANGE RE - TRANSFORMER MASTER FILE 42 of 15,332 Rcd

SERIAL NO: AC1576954

:	250	TYPE :		PHASE :	1
PRI VOLTS:	7200/12470	SEC. VOLT:	240/480	IMP :	3.60
TAPS(Y/N):	Y	TAP TYPE :	(5) 2 1/2%		
P.O. NO. :		LINE NO. :		DATE PUR:	08/06/69
VENDOR :				UNIT $:	1570.83
DATE INST:	09/25/69	JOB ORDER:	9202	LOCATION:	0010-30-0015
SUB CODE :	03	SUB NAME :	ERMEY		
FEEDER :		PHASE :		DATE RMV:	
JOB ORDER:		REASON :			
PCB DATE :	10/21/87	TEST NO. :	452-87	PPM :	8
P.O. NO. :	4690	LINE NO. :	16		
DATE SHIP:		TRANSPORT:			
MANIFEST :		WEIGHT :	.00	DATE INC:	
DISP CODE:		DISP NAME:			

STATUS(1=STOCK;2=FIELD;3=PCB;4=ARCHIVED;0=DELETE): 2

TYDEN QUAD v5.6 - <F1>Help <End>Exit or <F10> to SAVE Record

11/09/93 CHANGE RE - TRANSFORMER MASTER FILE 41 of 15,332 Rcd

SERIAL NO: AC1526955

:	250	TYPE :		PHASE :	1
VOLTS:	7200/12470	SEC. VOLT:	240/480	IMP :	3.60
TAPS(Y/N):	Y	TAP TYPE :	(5) 2 1/2%		
P.O. NO. :		LINE NO. :		DATE PUR:	08/06/69
VENDOR :				UNIT $:	1570.83
DATE INST:	09/25/69	JOB ORDER:	9202	LOCATION:	0010-30-0015
SUB CODE :	03	SUB NAME :	ERNEY		
FEEDER :		PHASE :		DATE RMV:	
JOB ORDER:		REASON :			
PCB DATE :	10/21/87	TEST NO. :	451-87	PPM :	1
P.O. NO. :	4690	LINE NO. :	15		
DATE SHIP:		TRANSPORT:			
MANIFEST :		WEIGHT :	.00	DATE INC:	
DISP CODE:		DISP NAME:			

STATUS(1=STOCK;2=FIELD;3=PCB;4=ARCHIVED;0=DELETE): 2

TYDEN QUAD v5.6 - <F1>Help <End>Exit or <F10> to SAVE Record

11/09/93 CHANGE RE - TRANSFORMER MASTER FILE 7,061 of 15,332 Rcd

SERIAL NO: RTE792012128
KVA : 50 TYPE : CSP PHASE : 1
PRI VOLTS: 7200/12470 SEC. VOLT: 120/240 IMP : 2.00
TAPS(Y/N): N TAP TYPE :

P.O. NO. : 2386 LINE NO. : DATE PUR: 02/07/80
VENDOR : UNIT $: 666.75

DATE INST: 06/23/88 JOB ORDER: 111V LOCATION: 0010-30-0015
SUB CODE : 03 SUB NAME : ERMEY
FEEDER : PHASE : DATE RMV:
JOB ORDER: REASON :

PCB DATE : 10/12/87 TEST NO. : 193-87 PPM : 0
P.O. NO. : 4676 LINE NO. : 2

DATE SHIP: TRANSPORT:
MANIFEST : WEIGHT : .00 DATE INC:
DISP CODE: DISP NAME:
STATUS(1=STOCK;2=FIELD;3=PCB;4=ARCHIVED;0=DELETE): 2
TYDEN QUAD v5.6 - <F1>Help <End>Exit or <F10> to SAVE Record

11/09/93 CHANGE RE - TRANSFORMER MASTER FILE 9,180 of 15,332 Rcd

SERIAL NO: WES5450732
KVA : 75 TYPE : DB S PHASE : 1
PRI VOLTS: 7200 SEC. VOLT: 120/240 IMP : 3.30
TAPS(Y/N): Y TAP TYPE : (5) 2 1/2%

P.O. NO. : LINE NO. : DATE PUR:
VENDOR : UNIT $: .00

DATE INST: 07/25/68 JOB ORDER: 4141 LOCATION: 0010-30-0015
SUB CODE : 03 SUB NAME : ERMEY
FEEDER : PHASE : DATE RMV:
JOB ORDER: REASON :

PCB DATE : 06/30/88 TEST NO. : 014-88F PPM : 3
P.O. NO. : 4833 LINE NO. : 2

DATE SHIP: TRANSPORT:
MANIFEST : WEIGHT : .00 DATE INC:
DISP CODE: DISP NAME:
STATUS(1=STOCK;2=FIELD;3=PCB;4=ARCHIVED;0=DELETE): 2
TYDEN QUAD v5.6 - <F1>Help <End>Exit or <F10> to SAVE Record

```
11/09/93 CHANGE RE - TRANSFORMER MASTER FILE              9,316 of  15,332 Rcd

SERIAL NO:  WES6169515
          :  75             TYPE     :  S            PHASE    :  1
PRI VOLTS:  7200/12470     SEC. VOLT:  120/240      IMP      :  3.30
TAPS(Y/N):  Y              TAP TYPE :  (5) 2 1/2%

P.O. NO. :                 LINE NO. :               DATE PUR:
VENDOR   :                                          UNIT $  :                 .00

DATE INST:  07/25/68       JOB ORDER:  4141         LOCATION:  0010-30-0015
SUB CODE :  03             SUB NAME :  ERMEY
FEEDER   :                 PHASE    :               DATE RMV:
JOB ORDER:                 REASON   :

PCB DATE :  06/30/88       TEST NO. :  015-88F       PPM    :     -1
P.O. NO. :  4833           LINE NO. :  3

DATE SHIP:                 TRANSPORT:
MANIFEST :                 WEIGHT   :         .00   DATE INC:
DISP CODE:                 DISP NAME:
STATUS(1=STOCK;2=FIELD;3=PCB;4=ARCHIVED;0=DELETE):  2
TYDEN QUAD v5.6 - <F1>Help <End>Exit or <F10> to SAVE Record


11/09/93 CHANGE RE - TRANSFORMER MASTER FILE              9,317 of  15,332 Rcd

SERIAL NO:  WES6171844
          :  75             TYPE     :  S            PHASE    :  1
    VOLTS:  7200/12470     SEC. VOLT:  120/240      IMP      :  3.30
TAPS(Y/N):  Y              TAP TYPE :  (5) 2 1/2%

P.O. NO. :                 LINE NO. :               DATE PUR:
VENDOR   :                                          UNIT $  :                 .00

DATE INST:  07/25/68       JOB ORDER:  4141         LOCATION:  0010-30-0015
SUB CODE :  03             SUB NAME :  ERMEY
FEEDER   :                 PHASE    :               DATE RMV:
JOB ORDER:                 REASON   :

PCB DATE :  06/30/88       TEST NO. :  013-88F       PPM    :      3
P.O. NO. :  4833           LINE NO. :  1

DATE SHIP:                 TRANSPORT:
MANIFEST :                 WEIGHT   :         .00   DATE INC:
DISP CODE:                 DISP NAME:
STATUS(1=STOCK;2=FIELD;3=PCB;4=ARCHIVED;0=DELETE):  2
TYDEN QUAD v5.6 - <F1>Help <End>Exit or <F10> to SAVE Record
```